A60N

A60N West Perth, Australia

A60N work with O&G Operators to understand and solve their operational subsea problems. As a group of engineers and materials scientists, we are dedicated to helping our clients achieve subsea operational excellence. Our systematic approach is always rooted in a thorough scientific understanding of the root causes of issues, which allows us to develop evidence based, long term solutions: always aiming for prevention over cure.



Abyss Solutions Houston, Texas

Abyss has developed imaging systems and related computer vision algorithms to provide precise, large scale, efficient and objective analysis of assets for structural health monitoring. Specifically, Abyss has two services: 1. Computer vision based algorithms for automatic detection and quantification of corrosion for Fabric Maintenance of O&G platforms 2. Imaging systems for high-precision measurements of mooring chains and other underwater assets.

Paul Georgeson | paul@a60n.com



Accu-Scribe The Woodlands, Texas

In non-RSS drilling, there is a drilling assembly offset between the MWD and mud motor that is critical for accurate wellbore placement performed by slide drilling. Today, there is no accurate and standardized process for determining that offset. Also, slide drilling accounts for 35-50% of drilling time, but only 5-15% of distance drilled. The "rough guess" method, in use today, accounts for millions of dollars in extra sliding, sidetracking, non-productive time, added wellbore tortuosity, and possibly worse. AccuScribe can reduce drilling time by producing more effective and predictable slides. Having an accurately aligned BHA provides more consistent slide yields, better projections to the bit, and increased wellbore trajectory.

<u>www.accuscribe.us</u>

Brian Gollehon | brian.gollehon@accuscribe.us

http://www.abysssolutions.co

Masood Naqshbandi | masood@abysssolutions.co



Advanced Fabric Technologies The Woodlands, Texas

Advanced Fabric Technologies' (AFT) mission is to commercialize its proprietary auxetic fabric-fiber technology providing industry and consumers performance textiles previously unavailable. The company holds the global patents on the textile geometric composition intellectual properties and engineering models that provide the routes to develop engineered textile products employing available fibers and filaments. The company's strategy is to work with companies within selected industries to develop previously unavailable performance textiles bringing to the market new forms of significant value based on unique forms of textile performance. Active product and development markets include: off-shore energy, utility, footwear, socks, industrial testing, space, transformer shielding, off-shore corrosion management and military-telecom and initial discussions in architectural, sports equipment and medical. AFT's technology provides unique textile properties relative to alternatives.

<u>www.advancedfabrictechnology.com</u>

David O'Keefe | dokeefe@advancedfabrictechnology.com



AiSpanner Perth, Australia

AiSpanner is a boot-strap start-up company with deep engineering, data centric 3D plant design and maintenance knowledge, developing an intelligent data centric Turnaround, Shutdown Maintenance and Safety Planning application using advanced visualisation, analytics and spatial intelligence. The Company was founded by Mukesh Patel an experienced mechanical engineer. Mukesh has been working since 1989 as an engineer, entrepreneur, and technologist. He has experience in a wide range of experience including implementing engineering systems, design specification, plant lifecycle solution, maintenance & construction systems. His senior management experience in large organisations matured his strengths in strategy, business development and efficiency of operations. The AiSpanner team of computer engineers, data scientists, civil engineer and business administrator have extensive experience in oil and gas, mining and infrastructure industries. The company won a Turnaround Maintenance Visualisation hackathon run by Woodside Energy Ltd. and Curtin University in Perth Western Australia.

http://www.aispanner.com

Mukesh Patel | mukesh.patel@visualintellect.com.au



Cemvita Factory Houston, Texas

Our CO2 Utilization platform mimics photosynthesis to produce nutrients and pharmaceutics for deep space exploration and industrial chemicals and polymers for energy sustainability.

> <u>www.cemvitafactory.com</u> Moji Karimi | moji@cemvitafactory.com



Cumulus Digital Systems Cambridge, Massachusetts United States

The Cumulus platform collects data from digitally-enabled tools in the field to provide a single source of "truth" for real-time quality assurance and progress tracking. Cumulus replaces the need for expensive and time-consuming inspections to verify the quality and duration of tasks with software and tools that improve speed and accountability. Cumulus' flagship application is the Smart Torque System (STS), which was recently recognized as the 2019 Industrial IoT Innovation of the Year by Breakthrough IoT. STS improves productivity and work quality during safety-critical industrial bolting activities. STS empowers maintenance and construction managers with realtime insight into who completed the work, how long it took them to do it, and how well it was done. STS has been demonstrated to reduce data review and quality assurance costs by as much as 60% and reduce downtime.

<u>www.cumulusds.com</u> Matthew Kleiman | matt@cumulusds.com



Cumulus Projects Wandi, Australia

Cumulus is a digital twin ecosystem for the connected worker of tomorrow; field technicians, engineers and managers. Whereas some digital twins are focused on analytics, Cumulus takes the concept further. A workspace to visualise, plan & execute work throughout the entire asset lifecycle. Integrating data from legacy and emergent enterprise systems, presenting it to the user in one

place. Cumulus can be simplified to 3 layers: 1. Robust foundational communications layer proven in remote oil & gas subsea campaigns. Integrates with legacy enterprise systems. 2. Middle user work-space layer for work planning & field execution; combining industry leading 3D visuals, 2D, location aware data and legacy document viewing capability. Across all devices; web, mobile, VR, AR, desktop. Think Google maps for your operational asset facilities. 3. Overarching knowledge management layer. An equipment-centric Slack/ Twitter like feed for capturing knowledge across shifts/crews/ asset life cycle phases. Bots interacting with legacy enterprise systems.

https://www.cumulusprojects.com

Steven Cocks | steven.cocks@cumulusprojects.com



DarkVision North Vancouver, Canada

DarkVision has developed a super high-resolution acoustic imaging technology that gives oil and gas operators a clear set of eyes inside their wells, regardless of wellbore fluid clarity. The visual information collected allows well operators to make smart, informed and accurate operational decisions. Unlike cameras and optics systems, DarkVision has developed a proprietary acoustic-based imaging technology that allows them to see downhole with extremely high resolution through opaque fluids. The company has raised over \$19M to date and started generating revenue from successful field deployments in late 2017. Based on the technology's performance in the field, DarkVision now has 12 large oil and gas operators in North America as customers. The company is growing quickly and is now expanding into the US market to keep up with the industry's high-demand for its technology.

http://www.darkvisiontech.com

Stephen Robinson | robinson@darkvisiontech.com



DCiii Control Corpus Christi, Texas

DCiii saves companies an average of 20% of their chemical cost by optimizing and monitoring injection rates. We prevent large expenditures due to over or under-injection of chemicals by providing real-time control, monitoring, and data / analytics, saving customers hundreds of thousands of dollars in avoided maintenance. DCiii has created a suite of tools that automate, digitize, and optimize the chemical injection process. DCiii's value proposition is focused on owners & chemical companies' desire to have greater transparency, monitoring, and control of their chemical program. Our systems entail simple retrofit patent-pending hardware, smart monitoring tools, proprietary intelligent controllers, and software that ties-in to the producer's SCADA system. There are no 3rd parties handling data, charging for access, or recurring fees for limited services.

<u>http://dc3control.com</u> Chad Hammond | chad@dc3control.com



Deep Imaging Tomball, Texas

Presently US onshore O&G operators are placing wells closer together while increasing the completion treatment sizes. Recently, the sequencing and interaction of these wells has proven to negatively impact development economics. Deep Imaging offers operators the opportunity to understand where their fluid and proppant are going to optimize development strategies and drive improved economics. Deep Imaging (DI) monitors where fluid and proppant have been placed by measuring small changes in an induced electric field. This Agile EM technology has a small field footprint and does not require any access to the well or drilling pad. Results are turned around quickly in order to make decisions that directly impact

operations. By knowing how their reservoir is treated down hole, operators are adjusting their completion designs, reducing costs by as much at \$1M while avoiding frac hits to offset wells.

<u>www.deepimaging.com</u> Josh Ulla | joshulla@deepimaging.com



DOCKSTR Stockholm, Sweden

Marketplaces have redefined a number of industries in recent years. This accelerating trend is disrupting the status quo of big businesses and will also impact the offshore and marine industry lagging in its digital uptake. We have built a unique marketplace dedicated to this industry along with complementary productivity digital tools, initially focusing on the large yet fragmented and dysfunctional secondary market. In the last two years, we have made significant progress. We created a professional organisation, built an industry-leading platform and set of digital solutions. We are ready to engage with new industrial partners for our next step in this journey as our future involves API integration and piloting deeper technologies to transform and expand the marketplace in a way that redefines our target industries by reducing CAPEX, OPEX and working capital.

<u>http://www.dockstr.com</u> Slimane Bouabbane | slimane@dockstr.com

ELEMENT

Element Analytics San Francisco, California

Element unlocks industrial data, enabling modern analytics systems to find insights that transform operational performance, resulting in hundreds of millions of dollars of value for customers. Today, asset data is siloed and underutilized. Element AssetHub connects, manages, and shares asset data across the enterprise by developing Asset Twins – dynamic digital representations of equipment. With Element, any person or system can have a 360-degree view of every asset. Element is backed by leading financial and industrial investors including ABB, GE Ventures, Honeywell, Mitsui, Schneider Electric, Kleiner Perkins, and Blue Bear Capital. In 2018 Element was recognized by Gartner as a "Cool Vendor for IoT Analytics" and by JMP Securities on their Efficient Fifty List. For more information visit www.elementanalytics.com.

FATFINGER

FAT FINGER Houston, Texas

FAT FINGER is the leading provider of No-Code Digital Procedure Software. Headquartered in Houston, Texas, FAT FINGER services customers around the world. FAT FINGER's solutions are singularly focused on B2B and used by many of the Fortune 1000, digitizing thousands of procedures worldwide. The company's vertical expertise includes Oil & Gas, Chemicals, Manufacturing, Oil Field Services, and Field Services.

<u>http://www.elementanalytics.com</u> Andy Bane | andy@elementanalytics.com <u>www.fatfinger.io</u> James McDonough | james@fatfinger.io



Geps Techno Guerance, France

On its journey to provide clean energy for off-grid needs, Geps Techno has developed sea proven systems combining multiple sustainable source of energy available at sea. Based on a disruptive but sea-proven reliable technology combining power harvesting and platform stabilization, Geps Techno proposes to Oil&Gas customers to replace electrical cable link to main plant using autonomous platform able to generate and store energy from 1 to 500 kW. Those platforms could also be used as a basecamp for operating processes (maintenance, chemicals, monitoring, AUV...). Since 2015, Geps Techno delivers and

operates its platforms on commercial projects, with proven records in terms of reliability and power availability.

<u>http://www.geps-techno.com</u> Jean-Luc Longeroche | jean-luc.longeroche@geps-techno.com



GOARC Motza Ilit, Israel

GOARC's dynamic safety platform converges massive data from multiple sources, evaluates risks and delivers dynamic safety guidance in real time. GOARC cloud-based SaaS platform is designed to solve Industrial Companies' safety challenges by focusing on Behaviour Economics and preventing human errors - the leading cause for workplace accidents; by aggregating and analysing massive data - which is often lost or inaccessible; and by using Machine Learning and predictive analytics to make safety connected, proactive, user friendly and dynamic. GOARC integrates and improves process and personal safety while supporting workflows - from hazard analysis and reporting, to design for safety or material verification to prevent accidents and ensure asset integrity. GOARC has secured multi-billiondollar global oil and gas companies as customers through its marketing channels. GOARC has partnered with DEKRA, one of the world's top safety expert organizations, and the multinational Deloitte to sell its platform, and has additional partners worldwide.

www.go-arc.com

Dror Barak | dbarak@go-arc.com



Headworks International Houston, Texas

Headworks International believes wastewater treatment can be a source of revenue. The patented technology the Houston based company has developed can eliminate wastewater disposal costs entirely and generate revenue. A novel CO2 extraction system will recover oil from any material, including wastewater. Headworks' unique ultra sleek small footprint MBBR designs enable reuse of wastewater and recovery of value-added substrates that generate revenue. Previously many produced water or wastewater plants generating solids were faced with costly disposal charges. With the Headworks system, these same users who were spending millions are now realizing millions a year in profits. An easy to use intuitive SMARTcontrols interface on all Headworks equipment allows the operator ease of operation with multiple controls to automate the system. By combining these cutting edge technologies, Headworks can provide cost-effective solutions to the most difficult to treat water.

www.headworksintl.com

Somnath Basu | sbasu@headworksintl.com



Ingu Solutions Calgary, Canada

Ingu Solutions' Pipers[®] technology provides oil and gas companies with immediate and affordable access to pipeline assets even in the most challenging conditions. This revolutionary technology uses miniaturized inline sensors to detect leaks, geometric defects and deposits that threaten pipeline performance and safety with zero-downtime. Pipers[®] eliminate the need for human intervention, reducing inspection costs, strengthening preventive maintenance, and lowering repair and replacement expenditures.

> <u>https://ingu.co</u> John van Pol | john@ingu.co



Jupiter Intelligence San Mateo, California

Jupiter is working with leading oil & gas and utility companies to predict future flood, extreme heat, and wind gust risk for coastal, inland, and offshore facilities including upstream and midstream. Jupiter's tools help customers plan for hazards one hour to 50-plus years into the future, down to the street or building level. Its ClimateScore Intelligence platform, which leverages cloud computing to run and link multiple prediction models that ingest data from millions of ground-based and satellite sensors, delivers the world's most advanced predictions of perils from weather and climate. Jupiter's FloodScore Planning and Operations products help users prepare for potential flooding. Its proprietary models capture the complex interaction among flood-generating factors. Jupiter's HeatScore Planning and Operations products help organizations mitigate the temperature-related impacts of climate change by predicting extreme temperatures. The Company is launching WindScore and FireScore risk prediction products in 2019.

<u>www.jupiterintel.com</u> Matthew Stein | matt.stein@jupiterintel.com



LaserStream Humble, Texas

The hydrocarbon energy delivery process, involves drilling, fracing, production, transportation, & refining. Tubulars undergo erosion, corrosion and mechanical damage in the process. BEMIS laser profilometry systems are a proven, efficient technique to quantify these damage features. The internal dimensions can be profiled and then subsequently profiled, to determine damage rates and feed predictive analytics. The energy industry has relied on visual & basic techniques to assess tubular assets. The fidelity of laser profilometry allows energy groups to understand, model & predict their tubular assets in ways not previously available. LaserStream has successfully deployed these systems in a range of applications from assets near the drill bit to the pipeline, with a proven deliverable and a growing stable of repeat customers. 2017 World Oil New Tech Finalist; 2018 Rice Alliance Energy and Clean Tech - Top 10; 2019 OTC Spotlight on New Tech Award

www.laserstreamlp.com

Jason Waligura | jason.waligura@laserstreamlp.com



Lift ETC

Houston, Texas

LiftETC was formed in 2018 to commercialize a new and transformational artificial lift technology. Liquid Assisted Gas Lift (LAGL) utilizes the co-injection of liquid with gas to reduce compression costs and emissions and also costs associated with gas-lift design, in-well equipment and interventions. The technology was the 5th most downloaded paper on OnePetro in 2018 and is supported by a strong technical, business and manufacturing team. The commercial product delivers gas-lift from a surface module, eliminating all unloading valves. In addition to cost savings the impact on production is significant. LAGL provides earlier lift-from-the-bottom for high water-cut wells in the Delaware/Permian and eliminated inefficient due to multi-pointing. Uniquely, the LAGL Module is able to lift-fromthe-toe to controlling slugging and treat-from-the-toe to control corrosion. The commercial product graduated from Shell GameChanger February 2019 and is moving to field pilots. We are seeking investment to support rapid entry into the market.

http://liftetc.com

Stuart Scott | stuart@liftetc.com



MadMackenzie Solutions Missouri City, Texas

MadMackenzie Solutions is an EOR solutions provider delivering value to the industry by helping operators recover more original oil in place. We provide an environmentally friendly solution designed to maximize oil recovery and improve operations, while reducing harm to the environment. Our Team works with clients to evaluate historical production, assess reservoir conditions and develop economic solutions that solve challenges and improve production. MadMackenzie Solutions was established for the purpose of launching the product GreenZyme® into the industry. Our Team was purposefully built to support this technology with experiences from a variety of backgrounds enabling our Organization to support this platform product's full potential. The GreenZyme® technology is the industry's first non-living catalyst for oil recovery and is manufactured in Houston, TX. The product is an inert and water-soluble enzyme whose powerful catalytic function helps to mobilize oil, change wettability and improve relativepermeability. Truly, a cleaner, safer, smarter solution.

> <u>www.madmackenzie.com</u> Kevin Gentry | kevin@madmackenzie.com



Maxterial San Pablo, California

Maxterial is a green chemical company pursuing a business model like that of Teflon. Our bio-inspired coatings offer solutions for a myriad of billion-dollar problems including corrosion, fouling, and build-up of dirt, food, and ice. Our go-tomarket strategy is around licensing our wipe technology, which keeps surfaces free from food build-up and replaces hazardous oven cleaners. Our mid-term opportunity is around an economic, and corrosion resistant industrial coating which has been developed and tested to replace highly regulated hardchrome coating. Maxterial's long term opportunity covers industrial repellent/super repellent coatings, developed in response to the interest of 100+ companies that reached us. These companies include those in need of coatings that enable future technologies such as autonomous vehicles. Maxterial received its seed funding from the National Science Foundation, and seed stage funds of Peter Thiel (PayPal), Pierre Omidyar (eBay), and Eric Schmidt (Google).

<u>www.maxterial.com</u> Mehdi Kargar | mehdi.kargar@maxterial.com

⊶MIQrotech

mlQroTech Tampa, Florida

Pipeline leaks cost an estimated \$30 Billion in revenue loss industry-wide. This doesn't factor in the PR damage, the cleanup costs, or the fines that are associated with these disasters. With our hardware monitoring the most important variables to pipeline longevity (corrosion, geo-location, vibration, temperature, acoustics, pressure, and density), at speeds up to 42x every second, we gather a complete understanding of the conditions of our customer's pipeline. Our devices are mounted completely externally using epoxy, no welding, hot-tapping, or invasive installation required; That is a huge benefit as it makes installation a breeze and eliminates the 2.8% of leaks caused by invasive monitoring. This data is then submitted, wirelessly, to our cloud where it is analyzed constantly using neural network-backed artificial intelligence to see patterns that humans cannot. What this means is that we can predict leaks before they happen with a projected 96% accuracy!

<u>www.miqrotech.com</u> Meade Lewis | meade.lewis@miqrotech.com

.....



MolyWorks Materials Los Gatos, California

MolyWorks is enabling truly distributed manufacturing by producing metal powders on-demand at the point-of-need. Our mission is to recycle strategic metals into additively manufactured parts. Over the past three years we have demonstrated our technology in a number of verticals: Oil & Gas, Aerospace, and Heavy Industry. Last year our process converted scrapped downhole drill collars into additive manufacturing grade powder. Instead of receiving a minimal payment for the scrap metal our customer had high value additively manufactured parts and shared in the profit from selling the excess powder to the open market. We are committed to drastically improving the value of metal within our customers supply chain and we are determined to minimize the amount of metal that goes to landfill.



Monashee Pumps Calgary, Canada

Monashee Pumps Inc. is a Calgary based engineering design company focused on building the most durable downhole drilling market for the most demanding environments. Founded in 2013, Monashee has successfully developed it's patent pending Dynavane(TM) technology to address a \$1 billion market opportunity that will save operators over 50% of motor related drilling costs and reduce drilling time by 40% in the lateral.

> <u>www.monashee.com</u> Braden Murphy | bmurphy@monashee.com



<u>http://molyworks.com</u> Christopher Eonta | Ceonta@molyworks.com

> **MyPass Global** San Francisco, California

MyPass is a mobile first technology company empowering front line workers to manage training and competency information and prevent compliance gaps. Centred around a digital worker passport, MyPass simplifies the compliance management process for Operators, Employers and Sites. For our clients this is about two things: reducing risk by accessing real-time compliance data, plus reducing back-office costs by up to 70% through more streamlined processes. We are creating a singlesource integrated global worker credentialing platform designed to save time, and reduce risk, on site. Watch our explainer video to find out more: https://youtu.be/8EOIp23uc-E



Nanoprecise Sci Corp Edmonton, Canada

Nanoprecise's RotationLF solution empowers the customers with proper planning on the maintenance activities related to their machinery and benefits them by their downtime due to machinery such as a pump, compressors etc. Our solution is a

combination of three basic sensing elements (vibration + acoustic + temperature) and data analytics platform. It can be deployed cost effectively and utilized on the ~70% of machinery that is not monitored today. Since we founded in Jan 2018, we have generated \$100,000 in revenue, with Canada, US and India being our major markets and a pipeline of \$1 million in sales. We have a pipeline of 40 customers spanning Oil & Gas, Mining, Utilities, HVAC & Infrastructure sectors and looking forward to massive growth in 2019. We have raised \$1 million in venture funding and have obtained \$400,000 in government grants (both from AITF & NRC IRAP).

<u>http://mypassglobal.com</u> Matt Smith | msmith@mypassglobal.com

<u>www.nanoprecisesc.com</u> Sunil Vedula | svedula@nanoprecisesc.com



New AERO

Houston, Texas

New AERO is a biotechnology company that provides the oil industry with the most effective, economic, and green solutions for use in unconventional and conventional fields. Utilizing naturally occurring microbes and laboratory formulated nutrients, New AERO provides products for enhanced oil recovery and flow assurance. Use of the technologies requires minimal capital spending. Operating expenses are low and in some cases reduced. Applications can use existing field infrastructure. AERO and RevitaWell: Reservoirs respond quickly to the use of the method, showing higher oil rates and increased oil cuts. Recovery is increased, and the economic life of the field is extended. WellMAID: Microbial metabolic processes degrade large paraffin chains in oil producing wells to short-chain organic molecules allowing easier flow of hydrocarbons.

www.new-aero.com

Michael Samuel | michael.samuel@new-aero.com

Oliasoft Oslo, Norway

Oliasoft develops Oliasoft WellDesign[™], the only native engineering package built from scratch in order to achieve a range of efficiencies through digitalization and fulfill authority requirements related to the drilling and well domain. This is a complete well planning software for drilling engineers, covering all required calculations such as Trajectory Design, Casing Design, Tubing Design, Blowout Simulation and Conductor Analysis, all through a web browser. The cloud-based web application makes it easy to collaborate and share work. Due to the integrated software solution, data is always updated and you avoid re-entry of information. Oliasoft WellDesign[™] can receive input data from other API based software and perform well design calculations based on this input. Results and output from Oliasoft WellDesign[™] can be shared with external applications through APIs or be the basis for digital drilling procedure and a digital wellplan.

> <u>www.oliasoft.com</u> Andre Backen | andre@oliasoft.com



Onboard Dynamics Bend, Oregon

Onboard Dynamics is leading the transition from traditional energy fuels to the next generation of energy fuels to power our truck transportation needs and also provide critical solutions for the natural gas and renewable natural gas industries. The company develops and deploys mobile natural gas compressors to provide fleets and other industry players an easy and costeffective solution to compressing natural gas, thereby reducing fuel costs and NOx, particulate, and GHG emissions. The innovative technology enables a low-pressure natural gas source, or a renewable source, to be compressed up to 3600 psi (5000 psi optional) based on an engine without the need for electricity. The company's first product - the GoFlo® CNG-80* mobile natural gas refueling station- is a self-powered, scalable system that compresses natural gas at a throughput rate of 30-50 gasoline gallons equivalent per hour, depending on the inlet pressure. (*CNG=compressed natural gas)



Ondaka Burlingame, California

Ondaka's asset visualization technologies deliver intuitive asset understanding and deep learning for oilfield locations, processes, and equipment. Built for both desktop and mobile devices, Ondaka's easy-to-use asset identification, automated data surfacing and augmented reality tools, reduce trips to location, shorten sales cycles, and improve PSM performance times by up to 40%. Ondaka is a StartX company with offices at Stanford University and Station Houston.

www.onboarddynamics.com Rita Hansen | rita.hansen@onboarddynamics.com

<u>www.ondaka.com</u> Mothusi Pahl | mothusi@ondaka.com



OneStep Power Solutions Houston, Texas

The Solution for Safe Voltage Dip Ride Through Testing. OneStep Power's Generator Voltage Response Tester (GVRT) provides operators and clients of DP vessels a way to perform nondestructive power system testing. Key to this offering is safe and repeatable voltage dip ride through and transient over voltage testing. The GVRT allows vessel owners and their clients to safely demonstrate fault ride through capability associated with a short circuit. Additionally, the GVRT has been identified as a testing solution for a comprehensive range of voltage-related power system tests; making power system testing faster, safer and more reliable. OneStep Power was awarded OSJ's "Innovation of the Year Award 2019" for the GVRT's game-changing testing solution. OneStep Power's experienced engineers & patented technology provide the tools & methodologies for validating complex power systems, offering you the opportunity to redefine power system testing.

> www.onesteppower.com Mark Craig | mark@onesteppower.com

🖉 opslock

Opslock Austin, Texas

Opslock was built as a response to the challenges our founder experienced while working as a manager in the offshore industry. Resource intensive, unpopular, and slow to deliver: the paperwork that was becoming an ever-larger part of the offshore workday was entangled in the public image of energy companies without a clear path to overcome their inherent inefficiency and ineffectiveness. Opslock solves these problems. We handle the collection, management, and analysis of everything from Work Permits to Training Records, Daily Drilling Reports to Toolbox talks - using technologies that are at home in the offshore environment. By digitizing the workflow, we not only alleviate the burden on front line employees but can use the information collected to generate reports automatically, and more importantly establish and identify patterns of behaviour that lead to incidents - and empower management to intervene before they happen.

> www.opslock.com Joe Meadows | joe@opslock.com



PsiKick Santa Clara, California

PsiKick's mission is to provide batteryless, wireless sensing solutions that are cost-effective and unleash new actionable insights from previous untapped data sources. Starting in the industrial segment, PsiKick provides full-stack solutions, collecting data where other can't, and delivering actionable insights "as-a-service" via a cloud analytics platform. Batteryless sensors coupled with the end-to-end model simplify the deployment process and enables scale, while providing customers with what matters most-real-time insights.



Qnergy Ogden, Utah

Qnergy is a growth-stage company that brings to market the first low-maintenance power generator in the 1-10 kilowatt range. Our core technology is a free piston Stirling engine, which was recently recognized by NASA as the most reliable technology 'in history'. In principal the technology can use any heat source given high enough temperature. The typical fuels are natural gas, propane and biogas. Natural gas is the fastest growing fuel source in the U.S. We focus on remote and distributed power for gas companies and gas utilities. Our customers want to combine emission reduction with economic benefits. We provide 'peace of mind' at low CapEx and virtually zero OpEx. Our applications include: freeze-off prevention, air compression, cathodic protection and back-up power.

www.psikick.com Bob Nunn | bob@psikick.com

www.anerav.com ORY ZIK | ory.zik@qnergy.com



Aberdeen, United Kingdom

RAB-Microfluidics is a Scottish Start-up company with a mission to revolutionise the way petroleum fluid analysis is carried out by making the process automated, rapid and cost effective. Diagnosing early, potential failure of heavy machinery is critical to operations across many industries. For this reason, industrial businesses in 2017 spent £2.01Bn on state-of-the-art Oil Condition Monitoring (OCM) techniques. These techniques however, are inefficient, expensive and environmentally unfriendly. For example, additional £2.1Bn was spent in 2016 on breakdowns, repairs and associated downtime losses, highlighting inefficiency of current OCM technologies. We have developed cutting-edge microfluidic 'Lab-on-a-chip' technology that delivers OCM analysis a 1000x faster and 10x cheaper than current approaches. Specifically offering customers real-time continuous monitoring, early problem diagnosis, rapid decision making, enhanced efficiency and cost savings. Our vision is to have our technology on every piece of valuable lubricated machinery in the world, to effectively transition businesses to predictive maintenance strategies.

> www.rab-microfluidics.co.uk Rotimi Alabi |rotimi.alabi@rab-microfluidics.co.uk

RAGSOL

RAGSOL Vienna, Austria

RAGSOL offers a novel approach for oil field digitalization from an operator's perspective in view of big data and industry 4.0 topics.

<u>www.ragsol.at</u> David Doppelreiter | david.doppelreiter@ragsol.at

RaMoS

Rapid Modelling Software

RaMoS

Bergen, Norway

RaMos delivers a powerful, yet easy to use geology-based software platform that enables the user to create three dimensional geological models without importing field data. Our aim is to make RaMoS the leading software platform for geological sketching. RaMoS is developed over the last years by researchers and several PhD-candidates at NORCE Research in Bergen, Norway.



React Power New York, New York

Known reserves of heavy oil is capable of fulfilling the demand for fossil fuel for decades to come. However, current methods of extracting heavy oil is often costly and highly energy intensive. We, React Power, is producing a novel and low-cost reactive material capable of improving the recovery rate and profitability of existing heavy oil extraction operations by up to 50%. Our proprietary material requires only water or any water containing liquid to activate, produces no harmful chemicals, and is compatible with most unconventional recovery methods, including steam injection and hydraulic fracturing.

Nils-Eivind Holmedal | nho@visinnovasjon.no

Thomas Yu | thomas.yu@react-power.com



Rocsole Kuopio, Finland

Rocsole Inc is a leading provider of tomography technology for industrial processes. Rocsole provides solutions for level measurement under multiphase flow and fouling conditions. Venture-backed by Shell and Repsol, the company serves some of the largest oil and gas companies in the world, along with other heavy industries. Equinor joined to support Rocsole's Pipe Deposition Scanning technology development in 2019. Our customers use Rocsole's systems for example for monitoring of pipe deposition and tank and flotation cell level interfaces and water cut profiles. The accurate data provided by the system allows them to optimize their processes for major annual savings. Our main focus is in the oil & gas industry - especially in providing monitoring systems for improved flow assurance in the upstream sector. Our systems are ATEX/IECEx approved and withstand harsh process conditions.

<u>www.rocsole.com</u>

Anssi Lehikoinen | anssi.lehikoinen@rocsole.com



Seal Well Calgary, Canada

Seal Well was incorporated in 2009 in Alberta, Canada and has developed patented tools and procedures for using bismuthbased metal alloys as superior sealants to block greenhouse gas emissions from oil and gas wells. This GHG emission problem afflicts about 60,000 wells in Alberta, and traditional cementing procedures are not reliable for their repair. The same problems exist everywhere oil and gas is produced. Seal Well acts as a contractor in partnership with wireline service providers to repair wells for operators. The same procedures and alloys can be used for a variety of other formation and equipment isolation problems.

www.seal-com

Homer Spencer | homer@seal-well.com



SecurityGate Houston, Texas

SecurityGate is the cyber planning and automation software of choice for industrial environments to "protect what matters." Our award-winning SaaS was developed by OT-domain experts that understand the difficulty of prioritizing risk management budgets, focus areas, and limited resources across highly dynamic operational ecosystems. SecurityGate is a configurable software platform that empowers users to easily prioritize risk management plans across OT/IT, expand the capacity of limited audit teams, and gain confidence to improve cyber management plans based on changes to critical suppliers, assets, and compliance requirements over time.

<u>https://securitygate.io</u> Ted Gutierrez | ted@securitygate.io



Sensorfield Houston, Texas

Sensorfield is a platform technology that disrupts current remote industrial monitoring with a low-cost, highly customizable plug-and-play full stack wireless hardware and software architecture. We are the first entrant in a second-wave of industrial IoT ecosystems. Our systems cover the entire vertical from custom designed hardware to data delivery, display, alarms and processing. Our high-resolution, near realtime data gives users and software providers the ability to unlock the full potential of big data, condition monitoring and predictive maintenance analytics. A customized integrated solar panel eliminates battery replacement. It also enables constant transmission of high rate data in near real-time, an order of magnitude over battery-powered devices and on par with current SCADA systems. Devices have been field proven over seven years of testing and design modifications. The company was founded in 2011 and initiated sales about two years ago. Systems are in use for customers throughout the US and Canada.

> <u>www.sensorfield.com</u> Stephen Crowe | stephen@sensorfield.com



Sisprobe Meylan, France

Sisprobe is a small start-up based at Grenoble university in France. The company uses the new technique of ambient noise processing of passive seismic data on industrial problems like exploration for mineral and petroleum, detection of nearsurface defects and voids, and monitoring of oil & gas and geothermal production fields. The ambient noise technique can be applied easily - a few people on foot can deploy seismic sensors for a typical survey - and no large equipment (active seismic sources) are required. As such, it has the advantages of being inexpensive, quick, environmentally friendly and noninvasive. Sisprobe has been profitable since it's inception in January 2017, and now has 7 permanent staff members and 6 scientific advisors.

<u>www.sisprobe.com</u> Richard Lynch | Richard.Lynch@Sisprobe.com

S O ∠ U T \ O N S E E K E R Solution Seeker Oslo, Norway

World's first AI for real-time O&G production optimization Solution Seeker is developing the first artificial intelligence for oil & gas production optimization, leveraging big data and machine learning techniques to solve the continuous optimization problem. The AI is capable of analyzing thousands of historical and live production data streams, identifying field behavior and relations, and automatically and continuously providing the most up to date prediction model to make the optimal choice of production settings. The AI is currently being developed together with ConocoPhillips, Neptune, Wintershall, Lundin and Aker BP. The AI will disrupt the way operators can maximize production and improve their operations. Solution Seeker is a technology spin-off from the ICT research group at NTNU Engineering Cybernetics and NTNU's Centre for Integrated Operations. Today, the company has a theoretical foundation documented in more than 50 scientific publications, 25 Master's degrees and 5 PhDs.

> <u>www.solutionseeker.com</u> Bjorn-Erik Dale | be@solutionseeker.no



SOTAOG

Houston, Texas

SOTAOG is an IIOT platform centered around Oil and Gas solution sets that drive revenue growth. Our clients list includes Fortune 500 companies. Our End to End solution sets incorporate Predictive Analytics (unique combination Edge algorithms, Cloud algorithms, Machine Learning, cash flow centered logic and more) 1000's of small operators with >\$1B market cap looking for affordable IIOT solutions to increase revenue. Sales cycle only 2-4 months, annual revenue \$1M-\$5M/yr/client



SpotLight Massy, France

Our startup SpotLight is providing reservoir/production engineers with non-invasive real time detection of subsurface geomechanical changes on strategic subsurface areas that we called "Spots". Using a real-time detection information of changes in Spots, reservoir engineers can validate or invalidate production scenarios, models or mechanisms early enough to take preventive decision to maximize recovery, safety (and surveillance). To do so, we introduce the SpotDetection, a game changing concept that is using ONLY one static seismic source & one static receiver to detect changes at each Spot. This setup is agile, cost effective & environmentally friendly.

<u>www.sotaog.com</u> Sarah Tamilarasan | sarah@sotaog.com

<u>www.spotlight-earth.com</u> Habib KHATIB | habib@spotlight-earth.com



Syzygy Plasmonics

Houston, Texas

Syzygy Plasmonics is using Rice University technology to develop a next generation chemical reactor. Our reactor is able produce commodity chemicals using light instead of heat from burning fuel. Not burning fuel reduces the operating temperature of our reactor, which decreases both cost and carbon emissions of these chemicals by 50% or more. The first go-to-market reaction will be creating low-cost hydrogen from nat gas for 'small-scale' applications.

www.plasmonics.tech

Trevor Best | trevor@plasmonics.tech



TenzorGEO Aberdeen, United Kingdom

TenzorGEO's low-frequency passive seismic system is designed to more accurately locate hydrocarbon deposits, pinpointing where it is best to drill. Gives visibility to sub-basalt and subcoal targets. Allows to increase the certainty for planning and drilling wells, boosting the chances of appraisal success at a fraction of the cost of conventional methods. The technology has been applied in commercial projects onshore over the last 13 years and can nearly treble the chance of drilling a successful first well, making "small pools" of stranded resource more economic to exploit. Tenzor's data acquisition has been successfully tested offshore during a full-scale field trial in the North Sea with a supermajor in February 2019. Data interpretation is now taking place at Tenzor's supercomputer facility at University of Edinburgh, Scotland and company is currently involved in talks with several operators about its next commercial contract in the UKCS in 2019.

> <u>www.tenzorgeo.co.uk</u> Ivan Starostin | ivan.starostin@tenzorgeo.co.uk

u tagup

Tagup Somerville, Massachusetts

Tagup is an early-stage company building a software platform to predict equipment failures in real time. The core analytics were developed by the team while at MIT's AI Lab. Overall company objective is to build the largest equipment datasets in target asset categories providing customers better insight to asset health and enhanced decision-making capability. In contrast to existing methods, Tagup analytics update continuously as new equipment data is loaded, do not require manual weighting of health criteria, and can answer complex queries about equipment health/remaining life in real time. Tagup has developed a new method for quantitative, asset-specific failure prediction based on probabilistic mathematically modeling, known as survival analysis. Models estimate probability of failure and remaining useful life based on equipment metadata, operating data and historical failure examples. Existing and target customers include large electric utilities, power companies, OEMs, and water technology/service providers.

> <u>https://taqup.io</u> Jon Garrity | jon@tagup.io



Third Corner Plano, Texas

Third Corner, a Dallas-based software development company, has introduced Origo Oil & Gas Software. Origo seamlessly integrates with existing systems & data creating a single, shareable source which provides visibility, manages expense, mitigates risk, and increases business process efficiencies.

<u>www.origosys.com</u> Colby Nate | cnate@thirdcorner.com

· · ·



Simple. Accurate. Affordable. TOKU Inc's vision is to revolutionize the standalone monitoring industry. We bring remarkably effective solutions to the difficult upstream problem of pipeline leak detection. Our other solutions include: tank level monitoring, pump jack efficiency monitoring and water injection management. The core of all our solutions is ILLUMASS an IIOT system integrated with a revolutionary pressure-sensing device that can be installed in minutes. Our goal is to parallel the smartphone industry by

introducing new technology to create positive changes to the user experience. ILLUMASS allows users to purchase the T1000 device, install at field locations, initialize within minutes, and start viewing high-resolution pressure data. Simple plug and play. Capturing highresolution pressure data, up to every second, is the new measure determining if the asset is working and operating efficiently and effectively. Analyzing ILLUMASS' pressure data enhances predictability, increases capacity utilization and production, and drives down operating costs.

> <u>www.tokuindustry.com</u> Tory Nudd | tory.nudd@tokuindustry.com



Transect San Antonio, Texas

Transect provides an innovative SaaS solution that helps customers move confidently through the environmental due diligence process. From wetlands and endangered species to permits and cultural resources, there are many issues for companies to consider. Customers in oil & gas, renewable energy, engineering, and other industries are using Transect to get reliable answers quickly, stay on budget, and move projects forward with confidence. Transect's online reports provide instant answers--summarizing environmental concerns, showing you permit pathways, and giving recommendations for next steps. For more information visit transect.com.

<u>http://transect.com</u>

Sam Laine | Sam@transect.com



TriboTEX Colfax, Washington

TriboTEX originated from academic research on clean lubricants and resulted in technology that achieves results that can only be attributed to future nanobots. Material that repairs your engine and gearbox when you drive. This achieved by smart nanomaterial that consists of flat nanoparticles with two functionally different sides (sticky/slippery). One side attaches and reinforces the surface and other forms a protective lubricating coating. so in any given interface, there will be slippery-on-slippery contact. We bootstrapped this company to over \$1M in revenue (2018) leveraging federal research and SBIR funding from DOE, NSF, Air Force, ASEE and crowdfunding campaigns on Kickstarter and Indiegogo. We are looking for strategic partners in application, distribution and global expansion.



UNLTD Montreal, Canada

At UNLTD, creativity, innovation and storytelling are the foundations of our work. We create premium experiential stories that not only contribute to the success of our clients business but also give them a competitive market advantage. We will help you engage your audience on a whole new level, immersing them into your story in a way never before possible.

<u>www.tribotex.com</u> Pavlo Rudenko | pashar@tribotex.com

<u>www.go-unlimited.co</u> David Racicot | david.racicot@go-unlimited.co

. . .



Validere Calgary, Canada

We're a Y-Combinator and Sallyport Investments backed team focused on radically improving oil and gas quality operations through AI & IoT. Validere's IoT platform, Validere 360, consolidates, automates, and validates all quality data into a single platform which provides real-time, reliable insights to make better and faster decisions. Validere's AI platform, Validere Alpha, uses the IoT platform's verified data to optimize quality, logistics, and trading through real-time insights across all business units to obtain significantly more value for the same barrel. Some of the brightest oil & gas quality experts and data scientists have joined our mission to improve the quality of \$2T of oil. We are the only solution that empowers O&G operators to know true product quality and optimize its value.



Vintri Technologies Calgary, Canada

Vintri partners with Energy Operators to upgrade their material management and Quality Assurance systems through our digital quality assurance and material traceability software platform and consulting services. These services apply to new or existing infrastructure projects and provide overhead cost reduction, increased material utilization, expedited infrastructure monetization, and regulatory compliance. Vintri is providing the critical first step of the energy industry's digital transformation.

https://validere.com

Nouman Ahmad | nouman.ahmad@validere.com

<u>www.vintritech.com</u> Jeff Boyle | jeff.boyle@vintritech.com



Voyager Fort Myers, Florida

Whether an oil rig movement or a regularly scheduled shipment of crude oil or ethanol, maritime logistics and processes are still largely handled via phone, email and even fax -- leaving little opportunity for operations teams to analyze logistics flows or learn from mistakes. Voyager is moving these interactions away from unstructured information flow and towards structured data, by providing a web-based platform for companies to collaborate more efficiently internally and with their counterparties. All parties -- from oil majors and chemical charterers, to shipowners, to brokers and terminals -- are afforded unprecedented visibility over maritime logistics and the opportunity to establish a continuous improvement loop. Voyager is already working with a large shipowner and a large national oil company, with many more functionalities to come over the next year.

<u>http://voyagerportal.com</u> Matthew Costello | Matthew@voyagerportal.com



WellDiver Stafford, Texas

WellDiver designs and fabricates novel materials more costeffectively than anyone else in the oil & gas industry, controlling materials structures at atomic length scales. We can achieve target requirements in materials properties such as strength, ductility, fracture toughness, corrosion resistance, electrical properties and dissolution to an unprecedented level. Our competitive advantage is our patent portfolio and knowhow combined with a mature supply chain to deliver products at volume. Started in October 2017, WellDiver is commercializing 3 oilfield products during H1 2019. We developed a proprietary water dissolvable metal alloy twice as strong as any competitor dissolvable. It underlies our dissolvable frac ball and plug, which are lighter, stronger, and more predictably dissolvable than competitor. Our instrumented dissolvable frac ball measures pressure and temperature before, during and after hydraulic fracturing - an industry first. We are discussing scheduling field trials with 7 US operators, 1 supermajor and 2 national oil companies.

<u>www.welldiver.com</u> Ting Chen Roy | tcroy@welldiver.com

5 · · · / · · / c · · · · ·

