

## Company Fact Sheet

<b>Headquarters</b>	Salt Lake City, UT
<b>Founded</b>	2008
<b>Leadership</b>	Florian Solzbacher, Co-Founder, President Marcus Gerhardt, Co-Founder, CEO
<b>What We Do</b>	Blackrock Microsystems, a privately held company, is the leading provider of enabling tools for neuroscience, neural engineering and neuroprosthetics research & clinical communities worldwide. Installed in over 500 labs across the globe, Blackrock Microsystems has been at the core of groundbreaking research innovations.
<b>Mission &amp; Values</b>	Blackrock aims to lead the market in implantable microsystems by closely collaborating with researchers and investing to produce intuitive, cutting-edge technology to empower neuroscience.
<b>Key Products</b>	The Utah Array is the gold-standard electrode for recording and stimulating the brain. The company also produces headstages and data acquisition systems to record neural signals.
<b>Product Highlights</b>	Blackrock has the largest portfolio of FDA-cleared and CE-marked products and is one of the top choices for human research projects. Products include The Utah Array, wireless headstages, and DAQs
<b>Strategic Partnerships</b>	The University of Utah, Johns Hopkins Applied Physics Lab, Stanford University, Brown University, MIT, PhenoSys, Defense Advanced Research Projects Agency, DARPA HAPTIX, NIH
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## Corporate and Product Backgrounder

### About Blackrock Microsystems

Blackrock Microsystems, LLC (Blackrock) is a privately held company that produces the most advanced technology platforms for the neuroscience, neural engineering, and neuroprosthetics industries worldwide. The company provides neuroscience researchers with fully-integrated systems that range from 'out-of-the-box' solutions to fully customized systems where technical support is provided from the start to the end of an experiment. The company has established research partnerships with leading institutions worldwide and is lauded for its technical support, product reliability, miniaturization, and low-noise technologies.

### History

Blackrock Microsystems' legacy of high-tech innovation began with Bionic Technologies, a spin-off from the University of Utah in 1997. The company, started by Brian Hatt and Prof. Richard A. Normann (inventor of the Utah Electrode Array), was later taken over by Cyberkinetics Neurotechnology Systems, Inc. (CKI). After achieving major strides in applying neuroscience research technology to the human body, Blackrock Microsystems acquired CKI's research business in May 2008.

### Our Portfolio

The realm of neuroscience experimentation is not hampered by the imagination of the researchers, but rather by the availability of tools to execute their experimental vision. Neuroscience research is encumbered by mix-and-match components and complicated experiment setups that create time-consuming and expensive barriers. To address these challenges, Blackrock Microsystems has created the world's largest portfolio of turnkey solutions that facilitate acquisition, processing, and analysis of electrical signals recorded from the brain and peripheral nervous system for use in rodent, primate, and human research experiments. The company leads the industry in systems cleared for human use by the United States Food and Drug Administration (FDA) and the European Economic Area (CE).

The Utah Array has become the gold-standard for multi-channel, high-density neural recordings from large populations of neurons. Once the desired electrode configuration of the Utah Array is determined, it is wired to a connector that serves as a link between the Utah Array and one of several data acquisition units – the NeuroPort™ System, the Cerebus™ System or the CerePlex™ Direct System – where processing and analyses of physiological signals related to experiment state events occurs in real time. Using proprietary software, signals are processed and visualized on a computer screen as the data is being acquired.

### Delivering Value

The company has rapidly become an industry leader: Blackrock Microsystems' technologies are used in more than 500 locations worldwide, including Brown University, the Massachusetts Institute of Technology, Oxford University, and Tsinghua (Beijing).

Learn more at [www.blackrockmicro.com](http://www.blackrockmicro.com).

## Executive Management Team

**Professor Florian Solzbacher**  
*Co-Founder, Chairman &  
President*

A leading authority on chronically implantable sensors for electrophysiological and chemical biomarkers, Dr. Solzbacher serves as Director, Chair, and Advisor to a host of internationally renowned academic institutions, public-private partnerships, and innovative companies. As Chairman and President of Blackrock Microsystems, Dr. Solzbacher drives the technological vision for the company, with a focus on restorative tech for neurological conditions.

Among his varied leadership positions, Dr. Solzbacher serves as Director of the newly established Center for Engineering Innovation at the University of Utah, Co-Director of the Utah Nanotechnology Institute, and holds faculty appointments in Electrical and Computer Engineering, Materials Science, and Bioengineering at the University of Utah. His research focuses on harsh environment microsystems and materials, including implantable, wireless microsystems for biomedical and healthcare applications, and on high-temperature and harsh environment compatible micro sensors.

Co-founder of several companies including Blackrock Neuromed, SentioMed, and First Sensor Technology, Dr. Solzbacher is also a member of the Governing Authority Board for the Utah Science Technology and Research Initiative (USTAR). He was director of the Utah Nanofabrication Laboratory until 2013 and serves on a number of company and public-private partnership advisory and reviewer boards in Europe and the U.S., including the German Excellence Initiative, the European Research Council ERC, The Utah Governor's Science and Technology advisory board and NIH/NINDS Neural Interfaces Conference. He is author of more than 190 journal and conference publications, five book chapters and 22 invention disclosures, pending patents, or patents.

Dr. Solzbacher received his M.Sc. EE from the Technical University Berlin in 1997 and his Ph.D. from the Technical University Ilmenau in 2003.

**Marcus Gerhardt**  
*Co-Founder, CEO & CFO*

A career entrepreneur and investment advisor focused on innovative technologies and alternative investment markets, Gerhardt has brought operational excellence to Blackrock Microsystems, while scaling the company to expand its portfolio of technologies. During his 11 years at Blackrock Microsystems, he has helped drive strategic investment into areas of potential growth, while ensuring profitability.

In addition to his roles as CEO and CFO, Gerhardt also serves as a Board Director of Blackrock Neuromed.

Gerhardt co-founded a number of companies prior to joining Blackrock Microsystems in 2008, including Mondus, a pioneering ecommerce platform and one of the leading frontier market asset managers in the Middle East. Leveraging his expertise in management and financing for SME high-tech enterprises, Gerhardt also founded BBI, an international consulting firm that advises technology companies on funding, commercialization, and growth strategies.

Gerhardt earned his MPhil from Oxford University and his MA in Management from the University of St. Andrews in the UK.

**Andy Gotshalk**  
*Senior Advisor*

Extremely vocal and passionate about providing customer satisfaction in the fields of neurodiagnostics and epilepsy, Gotshalk brings more than 20 years of experience as a medical device executive to his role as Senior Advisor to Blackrock Microsystems. He is currently on the board of a number of companies and charitable trusts and holds a Bachelor of Science in Mechanical Engineering from the Georgia Institute of Technology.

**Troy D'Ambrosio**  
*Advisor*

In addition to his academic appointments as the executive director of the Lassonde Entrepreneur Institute and an assistant dean at the David Eccles School of Business, Troy D'Ambrosio is a serial entrepreneur and widely admired business mind. Co-founder, officer and director of multiple startup companies including Transworld Telecommunications, Convergence Communications and EPM Mining Ventures, D'Ambrosio's pursuits have attracted more than \$500 million in capital and sold for millions. Outside of his own entrepreneurial pursuits, D'Ambrosio has served as the VP of investor relations and corporate communication for American Stores Company, the director of mutual fund operations for Wasatch Advisors and a former deputy chief of staff to the mayor of Salt Lake City.

**Brian Stern**  
*Advisor*

Stern is a Director at Starboard Capital, Boston MA. He was previously Chief Strategy Officer at Xerox.

**TS Lau**  
*Co-Founder  
& Non-Executive Director*

Lau is Founder, Chairman, and CEO of Kim Ann Engineering Pte Ltd, a leading specialty metals business in Singapore.

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\*Last updated: September 2019