

## North American Bosch Research team strengthened by leadership appointments Knoll, Das and Oltramari named to new roles

April 12, 2024  
PI 207

- ▶ Stefan Knoll named vice president and head of Bosch Research in North America
- ▶ Sam (Samarjit) Das promoted to director of Bosch Research & Technology Center
- ▶ Alessandro Oltramari to become president of Carnegie Bosch Institute

**Sunnyvale, Calif., and Pittsburgh, Penn.** – Three new North American leadership promotions within Bosch Research will help strengthen Bosch's critical research in artificial intelligence (AI), semiconductors, hydrogen technologies, electrification and health care diagnostics. Thomas Kropf, president, Bosch Research and Advance Engineering, today announced recent leadership changes in the region. **Stefan Knoll** has been named vice president and head of Bosch Research in North America, **Sam (Samarjit) Das** was promoted to director of Bosch Research & Technology Center, and **Alessandro Oltramari** is now president of Carnegie Bosch Institute (CBI).

"This talented North American leadership team will ensure that Bosch remains a driving force in AI research and the transformation towards electrification, along with our important collaboration with Carnegie Mellon University," said Kropf.

### **Stefan Knoll – vice president and head, Bosch Research in North America**

As the vice president and head of Bosch Research in North America, Stefan Knoll now leads Bosch's team of world-class researchers in Sunnyvale, Calif., Pittsburgh, Penn., and Watertown, Mass.

Knoll has spent his entire career at Bosch. He began in 1999 as a development engineer in brake systems in Stuttgart, Germany. He moved to Detroit in 2000 and continued in engineering, first in brake systems, and then electronic stability control. With this U.S. experience, he returned to Stuttgart in 2005 and worked in product management in driver assistance systems, and then user experience projects. In 2019 he moved back to the U.S., this time to Silicon Valley, as a vice

president working with mobility customers. Knoll holds a master's degree in mechanical engineering and product design from the University of Stuttgart.

"I find the immediate and long-term opportunities of AI as an enabling technology to be most fascinating, and I'm excited to advance ways for AI to positively contribute to our lives and our business," said Knoll.

Bosch Research works with the business units to develop the next generation of Bosch products – and the one after that. At the same time, they identify key technologies of the future and make them usable for Bosch. The Bosch researchers also analyze geopolitical, social, economic, and technological megatrends that will shape the world of tomorrow – thus safeguarding Bosch's technological future viability.

The Research and Technology Center North America was established at three locations close to world-class universities and entrepreneurial ecosystems. It is headquartered in Sunnyvale, Calif., with additional offices in Pittsburgh, Penn. and Watertown, Mass.

At these locations, Bosch Research hosts over 100 researchers and various technical labs that employ state-of-the-art equipment, such as the Robotics Lab, Hydrogen Research Lab, Human Machine Interaction Research Lab, Biosensors lab, Microsensor Systems Lab and Integrated Circuits Lab.

### **Samarjit Das – director and head, Bosch Research & Technology Center Pittsburgh**

In his new role as the director of Bosch Research and Technology Center in Pittsburgh, Das leads a team focusing on cutting-edge AI research, as well as developing next generation Internet of Things (IoT) and security privacy technologies. He will also continue his role as the chief scientist of Signal Processing and Machine Learning research at Bosch Research.

Das was the principal researcher and project lead for Bosch's [SoundSee](#) space mission in partnership with Astrobotic Technology Inc. to perform autonomous acoustic monitoring aboard the International Space Station (ISS). [SoundSee was launched to the ISS in 2019](#) as experimental [sensor technology](#) as part of a research collaboration with NASA. The same technology was utilized in 2022 as part of a [research collaboration with Highmark Health](#) to investigate audio AI applications towards detecting pediatric pulmonary conditions, such as childhood asthma. In partnership with Bosch Building Technologies, Das also led [commercialization of SoundSee](#) audio AI technology that won [CES 2024](#)

[innovation award](#) in AI category and was also named honoree in human security category.

He started at Bosch's Research and Technology Center in Pittsburgh as a Research Scientist in 2013.

"I am so proud of our world-class team of researchers pursuing transformative innovation," said Das. "We, as a team, look forward to shaping and building an exciting future ahead for Bosch in AI, IoT and security technologies."

**Alessandro Oltramari – president, Carnegie Bosch Institute**

Alessandro Oltramari is president of the CBI and a senior research scientist at Bosch Research Technology Center in Pittsburgh.

Oltramari joined Bosch Research in 2016, after working as a research associate at Carnegie Mellon University (CMU), funded by public agencies like DARPA, NSF, ARL. At Bosch Research, he focuses on neuro-symbolic reasoning for decision intelligence. His primary interest is to investigate how knowledge systems can be integrated with learning algorithms, and help humans and machines make sense of the physical and digital worlds. He holds a Ph.D. in cognitive science from the University of Trento (Italy).

"As the new president of CBI, I look forward to continuing to grow Bosch's strong collaboration with CMU at the important intersection of industry and academia with a focus on cutting-edge research," said Oltramari. "Andrew Carnegie and Robert Bosch are formidable role models of the types of ingenuity, entrepreneurship, philanthropy and foresight that we should aspire to in our daily work."

A world-class academic and industry collaboration for more than 30 years, CBI is a unique alliance between CMU and Bosch. Activities at CMU include hosting the prestigious Carnegie Bosch Fellowship, supporting breakthrough research by providing funding for faculty, staff, and students, and providing ongoing support for Carnegie Bosch Chaired Professorships.

**Press photo/s:** #XXXXXX

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**About Bosch**

Having established a presence in North America in 1906, today the Bosch Group employs 40,200 associates in more than 100 locations in the North American region (as of Dec. 31, 2023). According to preliminary figures, Bosch generated consolidated sales of \$16.4 billion in the U.S., Mexico and Canada in 2023. For more information visit [www.bosch.us](http://www.bosch.us), [www.bosch.mx](http://www.bosch.mx) and [www.bosch.ca](http://www.bosch.ca).

The Bosch Group is a leading global supplier of technology and services. It employs roughly 428,000 associates worldwide (as of December 31, 2023). According to preliminary figures, the company generated sales of \$99.4 billion in 2023. Its operations are divided into four business sectors: Mobility, Industrial Technology, Consumer Goods, and Energy and Building Technology. As a leading IoT provider, Bosch offers innovative solutions for smart homes, Industry 4.0, and connected mobility. Bosch is pursuing a vision of mobility that is sustainable, safe, and exciting. It uses its expertise in sensor technology, software, and services, as well as its own IoT cloud, to offer its customers connected, cross-domain solutions from a single source. The Bosch Group's strategic objective is to facilitate connected living with products and solutions that either contain artificial intelligence (AI) or have been developed or manufactured with its help. Bosch improves quality of life worldwide with products and services that are innovative and spark enthusiasm. In short, Bosch creates technology that is "Invented for life." The Bosch Group comprises Robert Bosch GmbH and its roughly 470 subsidiary and regional companies in over 60 countries. Including sales and service partners, Bosch's global manufacturing, engineering, and sales network covers nearly every country in the world. The basis for the company's future growth is its innovative strength. At 136 locations across the globe, Bosch employs some 90,000 associates in research and development, of which roughly 48,000 are software engineers.

The company was set up in Stuttgart in 1886 by Robert Bosch (1861–1942) as "Workshop for Precision Mechanics and Electrical Engineering." The special ownership structure of Robert Bosch GmbH guarantees the entrepreneurial freedom of the Bosch Group, making it possible for the company to plan over the long term and to undertake significant upfront investments in the safeguarding of its future. Ninety-four percent of the share capital of Robert Bosch GmbH is held by Robert Bosch Stiftung GmbH, a charitable foundation. The remaining shares are held by Robert Bosch GmbH and by a corporation owned by the Bosch family. The majority of voting rights are held by Robert Bosch Industrietreuhand KG, an industrial trust. The entrepreneurial ownership functions are carried out by the trust.

Additional information is available online at [www.bosch.com](http://www.bosch.com), [www.iot.bosch.com](http://www.iot.bosch.com), [www.bosch-press.com](http://www.bosch-press.com).

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