

Zohaib T. Mian, Ph.D.

Title: Senior Autonomous Systems Architect

Organization: Robert Bosch

Mercedes-Bosch Autonomous Driving

Biography: Dr. Zohaib Mian is a senior autonomous systems architect at Bosch, leading architectural design efforts for joint Mercedes-Bosch autonomous driving project, which aims to bring fully automated driving to urban roads. Dr. Mian's expertise lies in system and software architectural designs, development of advanced autonomous systems, mission and path planning, advanced aircraft design for rotary/fixed-wing vehicles, complex system-of-systems analyses, simulation frameworks, and stochastic design methodologies. Previously, Dr. Mian was a staff research engineer and technical project lead for Autonomous and Intelligent Systems and Human Centered Robotics at United Technologies Research Center, where he led research into collaborative autonomy, mission/path-planning, GPS-denied navigation, and development of advanced and intelligent robotic platforms. Dr. Mian was the principal architect and manager for UTRC's autonomy experimentation and test laboratories. He was also the designer of the purpose-built advanced autonomy and flight testing lab at UTRC.

Dr. Mian's work has been focused on development of unmanned and autonomous aerial and ground systems, with focus on architecture, software/hardware integration, advanced prototyping, and cyber-physical experimentation. He was the lead researcher and later co-PI on Army Research Laboratory – Vehicle Technology Directorate's Micro Autonomous Systems and Technologies (MAST) project at Aerospace Systems Design Laboratory (ASDL), Georgia Tech. He has also designed novel vehicle concepts such as pressurized-structure UAV. Dr. Mian also played a primary role in starting the Advanced Design Prototyping and Testing Laboratory at ASDL, Georgia Tech.

Dr. Mian received a B.S. degree in Aerospace Engineering, with a minor in Manufacturing Engineering, from Middle East Technical University in Turkey, and M.S. and PhD degrees in Aerospace Engineering from Georgia Tech. Dr. Mian is currently working towards earning his private pilot license (PPL). He is also an avid mixed martial artist and enjoys designing, building, and racing cars.