

## B406 – What's Next in AV standards?



**Gil Amid**

Foretellix Ltd

Gil Amid is Chief Regulatory Affairs Officer, VP Operations, Co-Founder, Foretellix Ltd. A former Intel Vice President, Gil has over 30 years of experience in the verification world, from system level H/W and S/W verification, to VLSI/microprocessors validation and verification. Today, he is serving as Chief Regulatory Affairs Officer at Foretellix, which he also co-founded. Foretellix is developing a Scenario Based Coverage Driven Verification Environment for ADS (Automated Driving Systems). As part of his role he is actively involved in various autonomous vehicles safety standardization and regulation setting activities. Gil is the standardization project leader for OpenSCENARIO 2.0 with ASAM, where he is also a member of ASAM's technical steering committee. As a special advisor to SAFE (Secure America Future Energy) AV initiative, Gil is representing SAFE in the UNECE/GRVA and its sub work groups. Gil is a contributing member and reviewer of various standardization groups such as ISO 21448/SOTIF, ISO 3450{1,2,3,4}/Test Scenarios standards, SAE's On Road Automated Driving (ORAD) task forces, IEEE P2846, UL4600 and more.



**Kevin Gay**

Aurora

Kevin Gay leads the external development of safety standards and best practices for Aurora and previously Uber ATG. Kevin leads Aurora's technical engagement activities with the U.S. Department of Transportation as well as with a number of standards development organizations including the IEEE P2846, the Automated Vehicle Safety Consortium (AVSC), Association for Standardization of Automation and Measuring Systems (ASAM) and SAE On-Road Automated Driving Committee (ORAD). He also serves as the Secretary of the IEEE P2846 Working Group. Prior to joining Uber ATG, Kevin served for 16 years in the U.S. Department of Transportation in various roles across multiple modal administrations. At the National Highway Traffic Safety Administration, he was the Senior Advisor for Technology Policy to the Deputy Administrator where he provided strategic oversight of the vehicle cybersecurity and Vehicle-to-Everything (V2X) Communications programs. At Federal Highway Administration, Kevin was the Chief of Policy at the Intelligent Transportation System Joint Program Office where his team's research portfolio included radio frequency spectrum, cybersecurity, standards, architecture, data management and privacy. Finally, at the Volpe National Transportation Systems Center, Kevin led cross-functional teams of technical experts to conduct research projects in the research areas of automated vehicles, field operational tests, public-key infrastructure cryptography, program evaluation and analysis, and statistical model development. Kevin is certified as a Project Management Professional and has a Bache.



**Jacobo Antona-Makoshi**

Japan Automobile Research Institute

Jacobo holds a MSc. in Automotive Engineering and a PhD. in brain injury biomechanics from Chalmers University of Technology, Sweden. He has extensive automotive safety related research experience at JARI, including real-world accident data collection and analysis, injury biomechanics experimental and computational research, human behavior and traffic flow simulation modeling, AD safety assurance methodology development, and large scale international strategic research development. Jacobo currently leads the AD Safety Standardization group at JARI, is one of the experts representing the country at the related ISO working group,

and leads the international research cooperation activities of the SAKURA project; the largest ongoing AD safety assurance initiative in Japan comprising the Japan Automobile Manufacturers Association, and supported by the Ministry of Economy, Trade and Industry of Japan.



**Jim Misener**

Qualcomm Technologies, Incorporated

Jim Misener is Senior Director, Product Management and the Global V2X Ecosystem Lead for Qualcomm. He develops and executes Qualcomm's C-V2X deployment strategy across all global regions and works with roadside and automotive stakeholders, enabling software/hardware stack suppliers and internal teams to accomplish broad C-V2X deployment. Previously at Qualcomm, Jim led the automotive standards team and C-V2X was a major emphasis as well. In addition to his roles at Qualcomm, Jim serves as a 5GAA board member, ITS California board member, the SAE C-V2X Technical Committee Chair and is active in TRB, which involves serving as an ITS Committee member, Vehicle-Highway Automation committee member and Automated Vehicle Symposium Enabling Technologies session organizer. Jim also serves as an Advisory Council member to the Carnegie Mellon University/University of Pennsylvania/Ohio State National University Transportation Center, Mobility 21 and on the IEEE Intelligent Transportation Systems Society Board of Governors. Jim was an early pioneer in vehicle-highway automation and vehicle safety communication at the California Partners for Advanced Transit and Highways (PATH) at UC Berkeley, starting in the mid-90s. He has served as the PATH Executive Director, Executive Advisor to Booz Allen Hamilton, and an independent consultant with clients ranging from Silicon Valley startups, the automotive industry and Federal and State government agencies. Jim holds BS and MS degrees from UCLA and USC.



**Mahmood Nesheli**

The Canadian Standards Association (CSA) Group

Mahmood Nesheli is the Connected and Automated Vehicle Project Manager at CSA Group with several years of transportation innovation and smart mobility experiences. He worked as the smart vehicle project lead at the Canadian Urban Transit Research & Innovation Consortium. He also was a research fellow of Transportation Engineering at the University of Toronto. He is the author/co-author of multiple articles in refereed journals, book chapters, and proceedings. Mahmood received his Ph.D. in Transportation Engineering from the University of Auckland, New Zealand, and he is a registered professional engineer in Ontario.



**Edward Straub**

SAE International

Edward Straub coordinates industry, government, and cross-functional activities related to connected and automated vehicles at SAE International. He is the SAE Industry Technologies Consortia (SAE ITC) vice president for land systems and the director of SAE International's office of automation. He is responsible for providing a systems view of emerging automated vehicle technologies and their impact on the socio-technical landscape, operational considerations, and best practices. Dr. Straub contributes to numerous global standards activities, reports, and research initiatives related to automated vehicle technologies and deployment.



## **Jack Weast**

Intel

Jack Weast, Intel Fellow, Vice President, Automated Vehicle Standards, Mobileye: Jack Weast is an Intel Fellow and a Vice President for Automated Vehicle Standards at Mobileye. In this role, Jack leads a global team working on AV safety technology and the related standards that will be needed to understand what it means for an AV to drive safely. In his over 20-year career at Intel, Jack has built a reputation as a change agent in new industries with significant technical contributions to a wide range of industry-first products and standards in industries that are embracing complex high performance

heterogeneous computing for the first time. With an End to End Systems perspective, Jack combines a unique blend of embedded product experience with a knack for elegant System and Software design that will accelerate the adoption of Autonomous Driving. Jack is the co-author of “UPnP: Design By Example”, and is the holder of over 40 issued patents with dozens pending. Jack is an Adjunct Professor at Portland State University where he was recently inducted into the Portland State Maseeh College Academy of Distinguished Alumni in recognition of Jack’s achievements, leadership and service to the Engineering and Computer Science Profession, as well as to Society. Outside of work he is a classical pianist and never turns down an opportunity to take the karaoke stage.