

Yunex LLC | Systems Engineering | Austin Texas, USA

Name	Dave Miller
Department	YU US PS SE
Phone	+1 512 589 5749
Mail	dave.miller@yunextraffic.com
Date	June 26, 2024

Selection Panel Members

National Committee of the IEC

**Subject:** Recommendation for Brian Doherty

Dear Selection Panel Members:

As Principal Systems Engineer for Yunex Traffic (formerly Siemens ITS), I strongly recommend Brian as an outstanding candidate for the IEC Young Professionals Competition.

I have worked with Brian on the development of critical surface transportation standards as Chair of the Advanced Transportation Control Joint Committee that includes the Standards Development Organizations of National Electrical Manufacturers Association (NEMA), Institute of Transportation Engineers (ITE), and American Association of State Highway Transportation Officials (AASHTO). In addition, I have served as Co-Chair, Subject Matter Expert, or Working Group Voting Member for development of surface transportation standards, including:

- ATC 5201      Advanced Transportation Controller Standard
- ATC 5301      Advanced Transportation Controller Cabinet Standard
- ATC 5401      Application Program Interface Standard
- CTI 4001      Connected/Automated Vehicle Roadside Unit Standard
- NEMA TS-2    Traffic Controller Assemblies with NTCIP Requirements
- NEMA TS-8    Cyber and Physical Security for ITS Systems
- NEMA TS-9    Advanced Traffic Performance Measures for ITS Systems

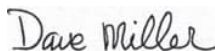
Most recently, I have worked directly with Brian on the development and maintenance of the NEMA TS-10 Connected Vehicle Infrastructure- Roadside Equipment Standard that provides secure wireless connections from roadside traffic control devices to Transit, Emergency, and private vehicles for driver safety warnings and automated vehicle control. Brian's efforts included:

- Directed the Systems Engineering Process and editorial content.
- User Needs from auto manufacturers, transportation agencies, consultants, and road users
- Requirements for hardware and software design by equipment suppliers
- Traceability from Needs and Requirements to Conformance Verification.

The resulting standard provides future automated vehicles with a digital view of lane markings, traffic signal countdown, signs, pedestrians, cyclists, and micro transit such as scooters. This standard effort is critical for Vehicle to Infrastructure interoperability and cybersecurity throughout North America.

If you would like to discuss Brian's capabilities further, please feel free to contact me.

Best Regards,



**Yunex GmbH**  
Chair of the Supervisory Board: Susanna Schneeberger  
Management Board: Jon Newhard, Jan Villwock, Elisabetta De Bernardi Di Valserra

Otto-Hahn-Ring 6  
81739 Munich  
Germany