

Mr. Dudeck is a Senior Staff Consultant for Engineering Systems Inc. (ESi). He has a bachelor's degree in mechanical engineering, with a minor in mathematics. Mr. Dudeck has extensive experience in failure analysis, forensic-style investigations, automotive engineering, aircraft design, advanced modeling, and technical reporting. He has over a decade leading engineering teams, conducting investigations, and producing documentation for regulatory and executive audiences. He has deep hands-on expertise in vehicle systems, engine and drivetrain rebuilds, custom fabrication, data logging, and performance testing, supported by advanced skills in CAD, FEA, CFD, and dynamic system modeling. Mr. Dudeck's ability to mentor engineers, manage complex projects, and communicate technical findings clearly. He has strong alignment with motor-vehicle accident reconstruction, mechanical failure analysis, and litigation support.

Mr. Dudeck is a licensed Professional Engineer (PE) in the State of Colorado. He is certified by the Association for Materials Protection and Performance (AMPP) as a CP3 Cathodic Protection Technologist, and CP Interference. He is also a NWIS Hydrostatic Test Inspector.

Education

BS, Mechanical Engineering with a minor in Mathematics,
LeTourneau University, 2006

Licenses & Certifications

- State of Colorado P.E. License No. 0056591

Positions Held

Engineering Systems Inc., Colorado Springs, Colorado

- Senior Staff Consultant, 2026-Present

Colorado Springs Utilities, Colorado Springs, Colorado

- Engineering Supervisor, Advanced Design, 2022-2026
- Principal Engineer, Resource Planning, 2021-2022

Contact Information

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ESi Colorado Springs

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Areas of Specialization

- Accident Reconstruction
- Mechanical Engineering
- Automotive (Gas/EVs/Hybrids)
- Oil & Gas
- Pipelines
- Utilities

- Senior Engineer, Planning & Design, 2019-2021

Southwest Gas Corporation, Phoenix, Arizona

- Technical Services Supervisor, Corrosion Control, 2019
- Distribution Engineer, Corrosion Control, 2018-2019
- Engineer I/II, MAOP, 2013-2018

Cessna Aircraft Company, Wichita, Kansas

- Engineer Associate, 2007-2008

Altec Industries Inc., St Joseph, Missouri

- Engineering Intern, 2005

Continuing Education

- **Incident Command System ICS-100 & ICS-700**, National Incident Management System (NIMS), July 2013

Professional Affiliations/Honors

Society of Automotive Engineers (SAE)

- Member since 2026

Association for Materials Protection and Performance (AMPP)

- Member since 2017