



TRAFFIC & AUTONOMOUS VEHICLE LAB RENOVATION

PROJECT LOCATION: UF MAE-C Traffic Lab Renovations – Gainesville, FL
EXPERIENCE OF: Mitchell Gulledge Engineering, Inc.
ROLE IN PROJECT: MEPF Design Sub-Consultant

CONSTRUCTION COST

Not Constructed

DESIGN PERIOD

May 2018 – November 2018
(Never Constructed)

PROJECT STAFFING

Project Manager:

Andrew Mitchell, PE, CxA

Mechanical Lead:

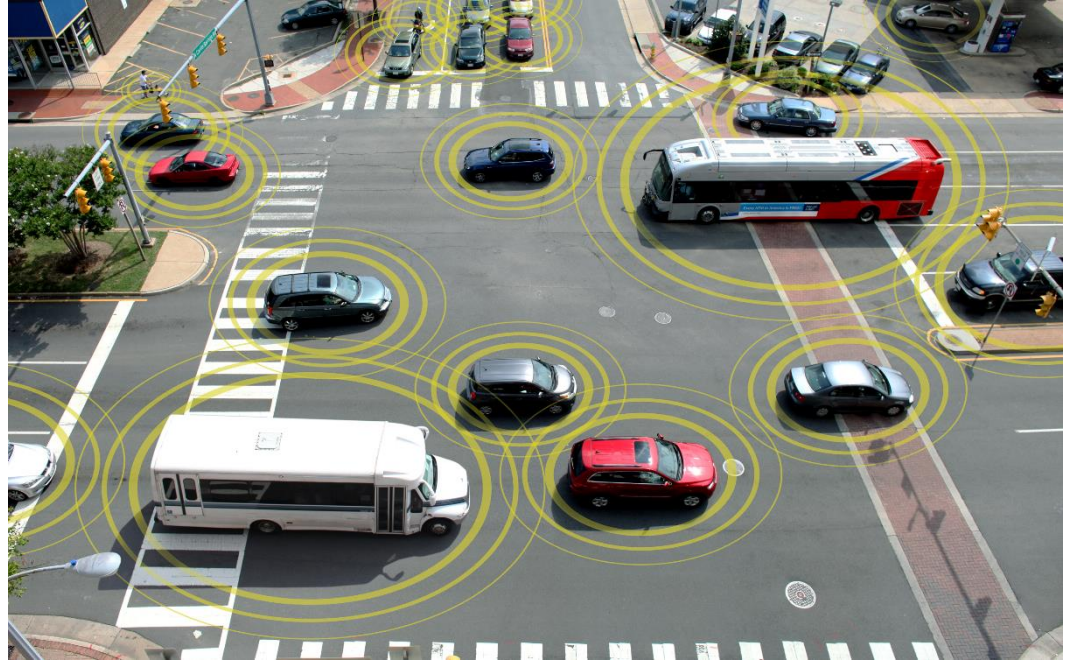
Andrew Mitchell, PE, CxA

Electrical Lead:

Andy McCaddin, PE

PROJECT OWNER

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PROJECT ARCHITECT

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PROJECT ENGINEER

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PROJECT SUMMARY:

The project was a design for a new 5,000 SF Autonomous Vehicle Laboratory at the Mechanical and Aerospace Engineering Building C for the University of Florida College of Engineering. This unique design and occupancy use included an open office area for research staff, a signal control lab, offices, three-car electronics testing garage, and a large visitor welcome area.

The HVAC scope included the reuse of an existing air handling unit with new zone valves and new controls. In order to meet the budgetary constraints of the college, existing systems were verified and reused to the furthest extent possible. The new garage area was designed with extensive user input to allow for all program requirements. The ventilation scheme allowed for the most restrictive use of the space, but would also be able to turn down when not used for vehicular operations in order to reduce energy consumption. Additionally, plumbing, fire protection, electrical, lighting, and fire alarm systems were designed and/or reconfigured as required to serve the project area.

The unique and creative design of this Autonomous Vehicle Laboratory for the University of Florida showcases Mitchell Gulledge Engineering’s ability to provide innovative consulting solutions while fostering cross-disciplinary team collaboration. The necessary MEPF system upgrades were fully coordinated with the existing system capabilities and the new architectural design to minimize utility impact while still providing the necessary infrastructure to satisfy the end user goals of the project. Mitchell Gulledge Engineering takes pride in providing unique design solutions and creating a pleasurable consulting experience in the process. This same level of enthusiasm and consulting engineering design expertise is important to the overall experience and success of every project.

