

Will Meadows

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http://willmeds.com

Skills

- Radar and LiDAR signal processing
- Circuit design & circuit board fabrication
- Pspice, OrCAD Layout Plus, Mentor Graphics PADS
- MATLAB and Simulink control system development
- Digital signal processing
- Machine learning and neural networks
- Python, C++ and C programming languages
- Microsoft Windows & Unix-based operating systems
- Automotive, Aerospace wiring and harnessing
- High voltage DC energy systems

Education

Master of Science in Electrical and Computer Engineering
Mississippi State University 4.00/4.00

Bachelor of Science in Electrical Engineering
Mississippi State University
Summa Cum Laude 3.91/4.00
Minor in Mathematics

Experience



Engineering Research and Consulting – Rover Power Systems Engineer (August 2019 – Present)

- Supporting NASA Johnson Space Center under the JETS contract.
- Design engineer for the VIPER Lunar Rover
- Electrical harness design
- BLDC motor controller design and testing



Oak Ridge National Laboratory – Department of Energy SULI Intern

(June – August 2018)

- Sustainability analysis of using smart technologies in manufacturing plants
- Evaluating bringing Industry 4.0 technology to existing factories
- Technologies include, internet of things, sensors, and image processing
- Industrial waste recovery analysis
- Investigating recycling industrial wastes from one industry in other industries



Mississippi State University's Center for Advanced Vehicular Systems

(August 2015 – August 2019)

Halo Project: Off-road autonomous vehicle, electrical integration lead (2017 – 2019)

- Intrinsic and extrinsic multi-LiDAR calibration
 - LiDAR data classification using neural networks
 - Converting a production vehicle into a “drive by wire” system (2017)
 - Developing safety hardware allowing a driver to override the “drive by wire” system
- “Car of the Future” Electrical Lead (2016 – 2017)
- Developing a range extension hybrid vehicle for CAVS internal research
 - Designing and constructing an electric powertrain and energy storage system
 - Working with a team of undergraduate, graduate, and full-time researchers
 - Designing digital and analog circuitry
 - Prototyping and fabricating printed circuit boards
 - Designing, and fabricating automotive wiring harnesses

Academics and Activities:

Member of IEEE Eta Kappa Nu Honor society (2017 – 2018)

Member of Phi Kappa Phi National Honor Society (2016 – 2018)

- Rank in top 7.5% of the Junior class of all disciplines.
- Shackouls Honor College Graduate (2018)

President's list (2014 – 2019)
Society of Automotive Engineers (2016)
Mississippi State University EcoCar 3 Electrical sub-team (2015)
Engineering study abroad in France (2015)
IEEE Professional Society (2014 – 2015)

Publications

- Nimbalkar, Sachin U., Supekar, Sarang D., Meadows, Will, Wenning, Thomas, Guo, Wei, and Cresko, Joseph. Enhancing Operational Performance and Productivity Benefits by Implementing Smart Manufacturing Technologies in Breweries. United States: N. p., 2019. Web.
- W. Meadows, C. Hudson, C. Goodin, L. Dabiru, B. Powell, M. Doude, D. Carruth, M. Islam, and B. Tang, "Multi-LiDAR placement, calibration, co-registration, and processing on a Subaru Forester for off-road autonomous vehicles operations," Proc. SPIE 11009, Autonomous Systems: Sensors, Processing, and Security for Vehicles and Infrastructure , May 2019.
- Sockeel N, Shahverdi M, Mazzola M, Meadows W. High-Fidelity Battery Model for Model Predictive Control Implemented into a Plug-In Hybrid Electric Vehicle. *Batteries*. 2017; 3(2):13.
<https://doi.org/10.3390/batteries3020013>