

# Lee Sargent

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## Education:

- Mississippi State University- Bachelor of Science in electrical engineering (Senior) 3.71 GPA
  - Shackouls Honors College (2011-2015)

## Work Experience:

- Engineering Mentor (2014)
  - Mentored 30 first year electrical engineering students
  - Focused on improving engineering community and student retention
- Software Engineer Co-op for ADTRAN, Huntsville, AL (2014)
  - Developed an automated process for releasing software packages
  - Methodologies: Agile Scrum, Test Driven Development, Functional Tests
  - Technologies: Python, Linux, Docker, PerForce, and other open source tools
- DSLAM Engineer Co-op for ADTRAN, Huntsville, AL (2013)
  - Conducted design verification tests on VDSL line card
  - Tested: Power supply quality, electromagnetic interference, clock signal quality, rate reach throughput, thermal cycle testing, reliability
- Tech Support Engineer (TSE) Co-op for ADTRAN, Huntsville, AL (2012)
  - Communicated directly with customers on advanced networking issues
  - Sustained the highest call volume of any TSE for two months

## Advanced Vehicle Technology Competitions:

- EcoCAR 2 Team Captain (2013-2014)
  - In charge of long term and day to day operations of MSU's largest and most successful engineering team
  - Oversaw multidisciplinary team of undergraduate and graduate students
  - Conducted comprehensive analysis of low and high voltage electrical systems
- EcoCAR 2 Electrical Co-Team Lead (2012-2013)
  - Constructed automotive wiring harnesses to interface hybrid vehicle components
  - Assembled high voltage battery pack
  - Delivered 1<sup>st</sup> Place controls engineering presentation to automotive industry experts
  - Published an SAE paper on hybrid vehicle integration

## Other Skills:

Experience with: high voltage systems, printed circuit board design, high speed digital design, electrical test equipment, MIG & TIG welding, machining, and SolidWorks  
Knowledge of: C, assembly, internal combustion engines, metal casting, and machine design

## Publication:

Doude, M., Hoop, J., Moore, J., Molen, G., Nguyen, V., Sargent, L., "Mississippi State University EcoCAR 2 Final Technical Report," SAE Technical Paper 2013-01-2489, 2013, doi:10.4271/2013-01-2489.

## Accepted Grant Proposal Written:

"EcoCAR 3: A Collegiate Advanced Vehicle Technology Competition," ANL/DOE/GM, \$260,000, April 9 2014 to June 18, 2018