Matthew Edward Boler

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EDUCATION	**Auburn University, Auburn, Alabama**

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Bachelor of Engineering *(anticipated May 2019)*
- Mechanical Engineering major with Computer Science minor
- Auburn National Presidential Scholar and Member Auburn University Honors College
- Member Pi Tau Sigma Mechanical Engineering Honor Fraternity
- GPA: 3.45

Mechanical Engineering Honors Project *(Summer 2017)*
- Designed, built, and programmed self-balancing inverted pendulum robot using the Arduino platform.

Auburn Hyperloop Team *(2016-2017)*
- Wrote and ran physics simulations in MATLAB for rotating Halbach arrays to optimize capsule centering on track.

Auburn NASA Student Launch Team *(2017—Present)*
- Rover subteam member involved in design, construction and programming.

Self-Driven Learning
- Aerospace Engineering, Audio Engineering, Astrophysics, Data Science.

CO-OP EXPERIENCE

Hubbell Power Systems, Birmingham, Alabama

Manufacturing and QC Divisions (Summer 2016, Spring 2017, Fall 2017)
- Planned and currently implementing real-time material ordering Access database using tablets and terminals on plant floor to reduce down time and indirect labor by machine operators.
- Wrote production software in VBA to calculate routing times for manufactured parts to accurately track production metrics, which increased earned-hours accuracy by 50% in steel fabrication production line.
- Designed and built prototype deburring robot for steel beam fabrication line.
- Led project to correlate and analyze custom tooling to scrap rates to save $50k/yr on production lines.
- Participated in 5S Kaizen events including implementation of FIFO and load-leveling plans and improvement of tool layout for assembly lines.

OTHER EXPERIENCE

Kohl's Corporation, Marietta, Georgia

Sales Associate *(Summer 2015)*

Cbeyond Inc., Atlanta, Georgia

Infrastructure Intern *(Summer 2014)*

Boy Scouts of America, Troop 797, Marietta, Georgia

Eagle Scout *(February 2014)*

FRC Team 2974, Walton High School, Marietta, Georgia

Driver, CAD Lead *(2010—2014)*

TECHNICAL SKILLS

Software

Microsoft Office, Solidworks, Autodesk Inventor, Autocad, SAP, LaTeX, ANSYS.

Programming

MATLAB, Java, Python, C, C++, Racket.