# Treavor Johnson

4508 Shane Lane, Knoxville, TN 37921 ● (423)333-9462 ● treavorcjohnson@gmail.com
www.linkedin.com/in/treavorjohnson ● https://github.com/treavorj

## Education

**The University of Tennessee, Knoxville** May 2017
*Bachelor of Science in Mechanical Engineering*
*Minors:* Materials Science and Engineering, Reliability and Maintainability Engineering, Engineering Entrepreneurship
GPA: 3.57/4.00

## Work Experience

**Denso Manufacturing – Maryville, Tennessee** May 2017-Present
*Advanced Production Engineer (E3)*
- Lead multiple >$1M projects from initial design review through procurement and implementation
- Architect and build multiple greenfield distributed systems to facilitate data capture and line communication
- Host cross-functional teams to analyze and implement process improvements
- Analyze thousands of data points to ensure process reliability
- Write specifications for new machines and lines exceeding $30M
- Create over 80 programs for aluminum machining and steel turning
- Prototype cutting edge process designs in laboratory environment

**The University of Tennessee, Knoxville – Knoxville, Tennessee** January 2017-May 2017
*Undergraduate Researcher – MABE*
- Build implicit 2D transient multi-boundary heat transfer solver in Matlab
- Collaborate with peers to design and validate heat transfer equipment
- Read and analyze numerous academic papers

**JTEKT Automotive – Vonore, Tennessee** May 2016-January 2017
*Manufacturing Engineering Intern*
- Improve manufacturing processes to improve system reliability and cycle time
- Test machine capability to advise on new product lines and machine maintenance
- Perform ROI calculations on new automation

**Waupaca Foundry Inc. – Etowah, Tennessee** Summers & Winters May 2013-January 2015
*Intern/Co-op* May 2015-January 2016
- Manage projects and teams of workers of over ten employees
- Design and improve parts for various types of machinery
- Produce hundreds of 2-D and 3-D models for new and existing equipment
- Create and organize a file system to hold millions of files

## Skills

Programming languages:
- Golang
- Python
- Machine Code
- AB or Sysmac PLC
- Excel VBA
- Denso Robots
- HTML/CSS
- Javascript/TS
- MS PowerApps/Automate
- Mitutoyo MCOSMOS
- Fanuc/Brother PMC
- Simul8 & Visual Components

Proficient with 2-D and 3-D modeling software: Autodesk Inventor, Autodesk AutoCAD, SolidWorks, Blender
Able to program and operate CNC machinery
Adept with Microsoft Office
Experienced with EndNote

## Honors

Boy Scouts of America, Eagle Scout
Chancellors Honor Program-UT (2013-2017)
Dean's List five semesters
LeaderShape Institute Graduate
Pi Tau Sigma

## Activities

**American Society of Mechanical Engineers, ASME** 2013-2017
*President, Treasurer, Design Team Leader*
- Design, build, and operate three multirotor UAV capable of lifting up to 50lbs
- Design, build, and operate five ground robots capable for tasks including navigating rigorous terrain and ejecting projectile
- Build budget proposals for funding acquisition
- Manage and Facilitate growth of the club