Aaron Bloch

Education

Purdue University, West Lafayette, IN   5/2019
Bachelor of Science in Electrical Engineering Technology
Relevant Coursework: Advanced Digital Signal Processing**,** Electronic Prototype Development, Embedded Digital Systems, Wireless Communications

Certifications: Passed FE Electrical and Computer exam

Experience

Cummins Inc. Seymour, IN   6/2019 - present
Instrumentation Engineering Technician
- **Instrumentation Calibration:**
  o In this role, I calibrate and maintain various instrumentation and emission testing devices. This requires hands on maintenance and attention to detail to keep various devices running accurately.
- **Root Cause Analysis and Troubleshooting:**
  o Root cause analysis and troubleshooting involves diagnosing and repairing various engine testing systems. This requires working with test cell operators to troubleshoot system networks to keep tests running and prevent future failure.
- **Create and Maintain Documentation:**
  o Keeping and maintaining documentation is essential for efficient testing. This role requires taking data from various measurement devices, processing the data, and storing the data for future cross-references or tests.

Design Projects

Senior Design Project, Purdue University   8/2018 - 5/2019
Electrical Designer
- Designed a car seat safety system for a security firm with customer requests
- Developed an Android app to communicate with electronic system
- Designed and tested multiple PCBs iterations using Eagle

Volunteer and Service

Trinity Robotics Team, Trinity Lutheran High School   4/2019 - present
Coach/Mentor
- Educate students in engineering principles including teamwork, programming, ethics, time management, and complex problem solving
- Manage team finances, lead team meetings, aided in team project management
- Created programming tutorials for students to get started in programming

Technical Skills

- Designed projects using C, C++, Java, Cyflex, Python, VHDL programming languages
- Familiar with Allen-Bradley PLCs and Rockwell Automation Software
- Solder PCBs using SMT and through hole components
- Proficient in Word, Excel, Project, PowerPoint
- Rapid prototyping via 3D printing and CAD using Autodesk design software suite