

ALEXANDER PAHL

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OBJECTIVE

Seeking a challenging career in the electrical engineering industry while I can enhance my strong technical, problem solving, and communication skills to the benefit of the company and myself.

EDUCATION

University of Minnesota Duluth

Bachelor of Science May 2014

Major: **Electrical and Computer Engineering** GPA: **3.8/4.0**

Dean's List for Academic Excellence, 5 of 6 semesters.

TECHNICAL SKILLS

Microsoft Office, Microsoft Visual Studio 2010, PSpice, Cadence, Mathematica, MATLAB
Assembly language, C++, Java, Visual BASIC, VLSI

PROFESSIONAL ENGINEERING EXPERIENCE

Electrical Engineering Intern, American Precision Avionics, April 2013- Present.

- Analyze and interpret engineering drawings using CAD systems such as Bentley View and Creo View
- Play an essential role in cost savings by performing time and material studies
- Generate product bills of material and wire cut lists for wire harnesses
- Write complete sets of manufacturing process instructions
- Create both high and low voltage electrical continuity tests with testing equipment
- Provide test and manufacturing support as required
- Interface with other internal departments such as manufacturing, marketing, quality assurance, product support, and purchasing, as well as external customers, suppliers, and manufacturers.

SELECTED PROJECTS

- **Four function generator:** Designed a four function generator to convert DC power into 4 different periodic waveforms using only capacitors, resistors, and operational amplifiers.
- **Logic problem solver:** Planned and coded a modular software package for both manually and automatically solving logic problems in Java.
- **Compression software:** Wrote a lossless compression software using a Huffman tree in C++

OTHER WORK EXPERIENCE

Prep Cook, University of Minnesota Duluth, November 2010-Present.

- Prepare various food items
- Supervise, lead, and teach less experienced employees

ACTIVITIES

IEEE UMD Student Branch

Phi Kappa Phi Honor Society

Physics Tutoring: Tutored college-level physics through UMD Tutoring Center for two semesters

Digital Systems Design Tutoring: Tutored digital systems design through UMD ECE department for one semester

Eagle Scout: Held a leadership position for 18 months. Planned, led, coordinated and documented a volunteer project for a non-profit furniture company.