Noah Bergman

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(651)-247-7668

Education

Bachelors in Electrical Engineering — Ames, IA
Iowa State University of Science and Technology — 2011-Present
Graduation: May 2016
GPA: 2.7

Experience

Altec Industries — St. Joseph, MO
Manufacturing Engineer Co-Op: Electronics — Jan.-July 2015
- Designed alarm unit for fiberglass resin tanks
- Automated Altium to Solidworks BOM using Visual Basic
- Designed process flow for proposed SMT production line

ETG Electronics Shop — Ames, IA
Shop Assistant — 2014-Present
- Designed testing unit for servos, op-amps, and transistors
- Troubleshooted and repaired lab equipment and printers

Swim America — Ames, IA
Private Swim Instructor — 2011-2014

Extracuriccular

FIRST Tech Challenge Volunteer — 2015 - Present
Volunteer Judge

Engineers for a Sustainable World (ESW) — 2012-Present
Vice President (Current), President, VP of International Projects

Institute for Electrical and Electronics Engineers (IEEE) — 2012-Present
Project Chair(Current), Web Media Chair, Project Leader

Habitat for Humanity — 2010-Present
International and Local Volunteer

Water Polo Club — 2011-2014

Project Experience

Puzzle Alarm Clock — Personal / Present
- 16x2 character LCD, Real-Time Clock, and IMU
- Focused on programming on a Real Time Operating System

Capacitive Touch, LED, Rubik's Cube — Personal / 2014–2015
- MSP432 running TI-RTOS, 36 TLCs, IMU, Bluetooth
- Custom designed capacitative touch zones
- Experience with collaborative software development in C/C++

Solar Street Light — ESW / 2013–2014
Project Leader
- Designed and programmed light controller and battery charger
- Experimented with XBee, ADCs, and Light Detectors
- Developed good understanding of work flow and multi-disciplinary collaboration

Water Collection System in Nicaragua — ESW / 2014–2015
Project Leader
- Designed rain water collection tank for irrigation in Nicaragua

TV-B-Gone and Color Organ — IEEE / 2013–2014
Project Leader
- Demonstrated basics of embedded programming, schematic and PCB design
- Prototyped designs by etching PCB blanks

Skills

Proficient in: C, MATLAB Scripts, Visual Basic, HTML, LaTeX
Basic Knowledge in: C++, Python
Programs: MATLAB Simulink, SOLIDWORKS(r), AutoCAD(r), Altium, KiCad, Eagle, Multisim, Visual Studio
Hobbies: Cheese Making, Rock Climbing, Hiking, Backyard Catapults, and Board Games