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

Relevant Work Experience

Altec Industries — St. Joseph, MO
Manufacturing Engineer Co-Op: Electronics — Jan.-July 2015
- Designed alarm system that reduced waste and saved $5,000 annually
- Identified more than $60,000 in annual savings
- Automated several tasks using Visual Basic including Solidworks drawing automation

ETG Electronics Shop — Ames, IA
Shop Assistant — 2014-Present
- Learned efficient troubleshooting methods for lab equipment, circuits, and computers
- Designed circuit boards for a robot testing unit and doorbell

Extracuriccular

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
Vice President(Current), Project Chair, Web Media Chair, Project Leader

Habitat for Humanity — 2010-Present
International and Local Volunteer

Water Polo Club — 2011-2014

Project Experience

Heads-Up-Display for Microscope Manufacturing — Honeywell - Senior Design
— Present
- Designed optical system for DLP display
- Circuit includes HDMI, USB, DMD, LED Drivers, and peripheral sensors

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

Water Collection System in Nicaragua — ESW
Project Leader — 2014–2015
- Developed international project opportunity in Nicaragua with local NGO
- Collaborated on design for ferro-cement water tank for irrigation

TV-B-Gone and Color Organ — IEEE
Project Leader — 2013–2014
- 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