

Noah Bergman

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(651)-247-7668

Education

Bachelors in Electrical Engineering

Iowa State University of Science and Technology
Graduation: May 2016

Ames, IA
2011-Present

Experience

Altec Industries

Manufacturing Engineer Co-Op: Electronics

- Designed alarm unit for fiberglass resin tanks
- Automated Altium to Solidworks BOM using Visual Basic
- Designed process flow for proposed SMT production line

St. Joseph, MO
Jan.-July 2015

ETG Electronics Shop

Shop Assistant

- Designed testing unit for servos, op-amps, and transistors
- Troubleshooted and repaired lab equipment and printers

Ames, IA
2014-Present

Swim America

Private Swim Instructor

Ames, IA
2011-2014

Extracurricular

FIRST Tech Challenge Volunteer

Volunteer Judge

2015 - Present

Engineers for a Sustainable World (ESW)

Vice President (Current), President, VP of International Projects

2012-Present

Institute for Electrical and Electronics Engineers (IEEE)

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

2012-Present

Habitat for Humanity

International and Local Volunteer

2010-Present

Water Polo Club

2011-2014

Project Experience

Heads-Up-Display for Microscope Manufacturing

- Designed optical system for DLP display
- Circuit includes HDMI, USB, DMD, LED Drivers, and peripheral sensors

Honeywell - Senior Design
Present

Capacitive Touch, LED, Rubik's Cube

- MSP432 running TI-RTOS, 36 TLCs, IMU, Bluetooth
- Custom designed capacitive touch zones
- Experience with collaborative software development in C/C++

Personal
2014-2015

Solar Street Light

Project Leader

- Designed and programmed light controller and battery charger
- Experimented with XBee, ADCs, and Light Detectors
- Developed understanding of work flow and multi-disciplinary collaboration

ESW
2013-2014

Water Collection System in Nicaragua

Project Leader

- Designed rain water collection tank for irrigation in Nicaragua

ESW
2014-2015

TV-B-Gone and Color Organ

Project Leader

- Demonstrated basics of embedded programming, schematic and PCB design
- Prototyped designs by etching PCB blanks

IEEE
2013-2014

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