Noah Bergman

nbergman@iastate.edu
noahbergman.com
(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
Electronics Manufacturing Engineer — Jan - Jul 2015
- Learned Altium Circuit Design while developing custom alarm system
- Automated bill of materials export from Altium to SolidWorks using Visual Basic
- Identified more than $60,000 in annual savings while leading monthly cost events
- Extensive use of Solidworks and AutoCad

ETG Electronics Shop — Ames, IA
Shop Assistant — 2014-Present
- Developed and tested labs for TI's TIVA C series ARM-M4 processor in C
- Designed doorbell with data logging and several peripheral devices
- Worked with professors and students to advise and troubleshoot various projects

Project Experience

Heads - Up - Display for a Manufacturing Microscope — Honeywell - Senior Design
— Present
- Designed optical system and circuit board to integrate with DLP Display
- Worked with ARM-M4 and MSP430 to create user interface
- Experience with HDMI and other Digital Video protocols
- Custom mounting hardware

Capacitive - Touch Rubik's Cube (LED Cube) — Personal
— 2014–2015
- MSP432 running TI-RTOS, 36 TLCs, IMU, Bluetooth
- Custom designed capacitive touch zones for 2D scrolling
- Collaborative software development in C/C++

Solar Street Light — ESW
Project Leader — 2013–2014
- Designed light controller and solar battery charger in KiCad EDA
- Experimented with XBee, ADCs, and light detectors
- Developed an understanding of multi-disciplinary collaboration and design

Water Collection System in Nicaragua — ESW
Project Leader — 2014–2015
- International project opportunity in Nicaragua with local NGO
- Collaborated on design for ferro-cement water tank for irrigation
- Developed risk management plan with peers and study abroad office

Extracurricular

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

Skills

Proficient in: C, MATLAB Scripts, Visual Basic, HTML, LaTeX
Basic Knowledge in: C++, Python, Verilog HDL
Software: MATLAB Simulink, SOLIDWORKS(r), AutoCAD(r), Altium, KiCad, Eagle, Multisim, Code Composer Studio, Visual Studio, Git