

Noah Bergman

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NoahBergman.com

(651)-247-7668

Education

Bachelors in Electrical Engineering

Iowa State University of Science and Technology

Ames, IA

Aug. 2011 - May 2016

Relevant Work Experience

Altec Industries

Controls Engineer

St. Joseph, MO

July 2016 - Present

- Lead electrical designer for multiple projects
- High-speed circuit design for eMMC, USB 2.0, and SPI technology
- Experience with CAN, CCP, Matlab Simulink, Solidworks, Altium, CANKing
- Something about testing to Vibration, thermal, and EMI/EMC specs.

Altec Industries

Electronics Manufacturing Engineer

St. Joseph, MO

Jan - Jul 2015

- Identified more than \$60,000 in annual savings while leading monthly cost events
- Extensive use of Solidworks and AutoCad

ETG Electronics Shop

Shop Assistant

Ames, IA

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

Relevant Work Experience

Altec Industries*Electronics Manufacturing Engineer*

- 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

St. Joseph, MO

Jan - Jul 2015

ETG Electronics Shop*Shop Assistant*

- 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

Ames, IA

2014-Present

Extracurricular

Engineers for a Sustainable World (ESW)*Vice President (Current), President, VP of International Projects*

2012-Present

Institute for Electrical and Electronics Engineers (IEEE)*Vice President(Current), Project Chair, Web Media Chair, Project Leader*

2012-Present

Habitat for Humanity*International and Local Volunteer*

2010-Present

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