# 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

## 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 / 2013–2014
*Project Leader*
- 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 / 2014–2015
*Project Leader*
- 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** — St. Joseph, MO / Jan - Jul 2015
*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

**ETG Electronics Shop** — Ames, IA / 2014-Present
*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

## 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