Noah Bergman

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Education

Bachelors in Electrical Engineering   Ames, IA
Iowa State University of Science and Technology   2011 - 2016

Relevant Work Experience

Altec Industries   St. Joseph, MO
Controls Engineer   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, CANape
- Designed product to exceed vibration, thermal, and EMI/EMC specs

Altec Industries   St. Joseph, MO
Electronics Manufacturing Engineer   2015
- Identified more than $70,000 in annual savings while leading monthly cost events
- Designed manufacturing layout for SMT equipment

ETG Electronics Shop   Ames, IA
Shop Assistant   2014 - 2016
- Developed and tested labs for TI's TIVA C series ARM-M4 processor in C
- Designed remote datalogging device with LCD UI, navigation buttons, and ADC module

Project Experience

Power Distribution Module   Altec Industries
    2017
- Lead electrical engineer for module controlling 15 relays and 2400W
- EMI/EMC, vibration, and thermal for ISO and EN compliance.
- Worked with CM's to meet budget goals and improve manufacturability
- Extensive use of CANape and CANking during testing and debugging
- Developed low-voltage relay disconnect and IO monitoring circuitry

Heads - Up - Display for a Manufacturing Microscope   Honeywell - Senior Design
    2015 - 2016
- 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

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++
- I2C, SPI, USB 2.0 connected peripheral devices and debugging applications

Extracurricular

Kansas City Climbing Community   2016 - Present
Treasurer(Current)

Engineers for a Sustainable World (ESW)   2012 - 2016
President,Vice President, VP of International Projects

Institute for Electrical and Electronics Engineers (IEEE)   2012 - 2016
Vice President, Project Chair, Web Media Chair, Project Leader

Skills

Proficient in: C, MATLAB Scripts, Visual Basic, HTML, LaTeX
Basic Knowledge in: C++, Python, Verilog HDL
Software: MATLAB Simulink, Solidworks, AutoCAD, Altium, KiCad, Eagle, Multisim, Code Composer Studio, Visual Studio, Git, SVN, Linux, CANape, Canking
Hardware Topologies: Microchip DSpic series, TI MSP430 and CC3200, SI Labs Happy and Zero Gecko
Hobbies: Cheese Making, Rock Climbing, Hiking, Backyard Catapults, and Board Games