THOMAS A. KILBRIDE

PRESENT ADDRESS

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PERMANENT ADDRESS

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EDUCATION

Purdue University, West Lafayette, IN Bachelor of Science, Electrical Engineering, Fall 2015 (expected) Bachelor of Science, Economics, Fall 2015 (expected)

EXPERIENCE

Electronics Design Engineer FirePICK May 2014 - Present

 $\rm http://delta.firepick.org/$

Designed circuits and motor control algorithms for use in a pick-and-place machine. Assisted with delta mechanism and motor controller circuit board design. The project is currently ranked 1st for the HackADay prize.

Freelance Design Engineer

Self-Employed

Fall 2007 - Present

(portfolio available upon request) Developed embedded devices and wrote software for many different applications. Specialized in VoIP, digital wireless communications systems and Data Acquisition (DAQ).

Electronics Team Leader

Purdue Electric Racing

Spring 2010 - 2014

http://purdueelectric.org/ Project manger for electric and combustion vehicle systems. Developed systems to characterize and validate vehicle performance. The data was used extensively to improve performance and competition ranking. Electrical team member in Formula SAE (FSAE) competition.

FIRST Robotics Mentor

Purdue FIRST Programs

Fall 2010 - 2011

 $\frac{\rm http://purdue first.org/}{\rm Assisted\ high\ school\ students\ with\ electronics\ and\ software\ design\ to\ compete\ in\ the\ national\ FRC}$ Championship.

SKILLS

Extensive knowledge of PCB and embedded systems development

Circuit debugging skills with Logic Analyzers, Vector Network Analyzers, and Spectrum Analyzers Programming skills in C, Python, Java, MATLAB, Verilog, ABEL-HDL, and AVR-Assembly Experience in SMT soldering, PCB Routing, CNC, manual machining, and rapid prototyping Proficient CAD experience in OrCAD, Altium Designer, EagleCAD, KiCAD, and SolidWorks Automotive-specific experience in CAN-Bus, dSPACE and wiring loom design

HONORS AND AWARDS

Won "Most Technically Impressive" and "Most Likely to Succeed Startup" at MHacks Hackathon Selected to interview for the YCombinator S14 batch in Palo Alto, CA Won 1st in "Best Project Concept" in The HackADay Prize competition

EXTRACURRICULAR ACTIVITIES

Purdue Electric Racing Project Manager and Co-Founder Purdue Formula SAE Electronics Team Member FirePICK Co-Founder

PERSONAL INFORMATION

I enjoy playing the viola, video games, swimming, reverse engineering firmware, and Vim.