THOMAS A. KILBRIDE

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SOCIAL
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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

Systems Performance Intern — Apple, Inc. — Jan 2015 - Present
http://apple.com/

Used automated application tests, synthetic tests, and benchmarks to analyze the performance of prototype and production Mac systems. Identified performance bottlenecks and architectural improvement areas in silicon, hardware, and software; worked with teams on those improvements, and reported results.

Electronics Design Engineer — FirePICK — May 2014 - Present
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.

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
http://purduefirst.org/

Assisted high school students with electronics and software design to compete in the national FRC Championship.

SKILLS

Knowledge of embedded hardware design, CPU and GPU architecture
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.