

THOMAS A. KILBRIDE

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SOCIAL

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EDUCATION

Purdue University, West Lafayette, IN
Studied Electrical Engineering (Minor in Economics), 2015

OBJECTIVE

Searching for full-time employment in hardware engineering or project management starting immediately.

EXPERIENCE

Hardware Engineering Intern Apple, Inc. Winter 2015 - Fall 2015
<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. Directly responsible for projecting the future performance of architectural changes.

Developer & Co-Founder Toucan Checkout Winter 2014 - Summer 2014
<http://GetToucan.com/>

Lead the backend design of a mobile ordering and checkout system which allowed users to order food without waiting in line. The system tracked past user order history to increase revenue for businesses up to 12%.

Developer & Co-Founder FirePICK Summer 2014 - Fall 2014
<http://Delta.Firepick.org/>

Prototyped and developed motor control board for use in a delta-based pick-and-place machine. Assisted with delta mechanism, motor controller circuit board design. Responsible for design of motor control board used in the machine.

Hardware Project Manager Purdue Electric Racing Spring 2010 - Spring 2014
<http://PurdueElectric.org/>

Lead the development of systems to characterize and validate vehicle performance. Results were used to validate designs and improve vehicle performance and competition ranking.

SKILLS

Knowledge of PCB Design, Electronics DFM, DC Power Supplies, PCB Layout, SPI, I2C, UART, USB, CAN Bus, DDR, and CPU/GPU Architecture
Circuit debugging skills with Logic Analyzers, Spectrum Analyzers, Network Analyzers and Oscilloscopes
Programming skills in C, Python, Java, MATLAB, ABEL-HDL, and ARM-Assembly
Experience in SMT soldering, PCB Routing, CNC, manual machining, and rapid prototyping
CAD experience in OrCAD, Altium Designer, EagleCAD, KiCAD, and SolidWorks

ACHIEVEMENTS

Won “Most Technically Impressive” and “Most Likely to Succeed Startup” at MHacks Hackathon
Won 1st in “Best Project Concept” in the 2014 HackADay Prize competition
Elected Executive Student Body President of Skyview High School in Vancouver, WA

PROJECTS

Technical Director of BoilerMake Badge Design Team
Currently designing 650 single board computers for BoilerMake Badge Project
Co-Founder of Toucan Checkout, a mobile ordering & payment system
Co-Founder and Project Manager of Purdue Electric Racing team
Purdue Formula SAE Electronics Team Member