

# THOMAS A. KILBRIDE

## ADDRESS

1540 Southwest Expwy  
San Jose, CA 95126  
admin@obnauticus.com

## SOCIAL

www.obnauticus.com  
github.com/obnauticus  
@kilbride.thomas

## 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

**Embedded Systems Engineer**      Radical Transport, LLC.      Fall 2015 - Present  
<http://markcubancompanies.com/>

Worked with a small team making hoverboards for Mark Cuban. Responsible for writing firmware and designing circuits to control a two-wheeled self-balancing scooter using a ARM Cortex-M4. Heavily involved with high-level consumer product design by working closely with Industrial Designers & Mechanical Engineers.

**Hardware Engineering Intern**      Apple, Inc.      Winter 2015 - Fall 2015  
<http://Apple.com/>

Analyzed the performance of prototype and production Mac systems. Identified performance bottlenecks and architectural improvement areas in hardware and silicon. Was used to predict the benefit 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%.

**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 1<sup>st</sup> 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