

# Kendrick Lau

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## Objective

- To obtain a full-time position where I can utilize my computer engineering background to innovate in an advanced manufacturing environment.

## Education

### COMPUTER ENGINEERING | PURDUE UNIVERSITY

EXPECTED DECEMBER 2018

- GPA: 3.10/4.00
- Bachelor of Science in Computer Engineering
- Minor in Communication

**Computer Languages:** Python, Verilog, Bash, C, Assembly, ABEL

**Software:** 3DExperience, PCAN Explorer, Git, Jira, Photoshop CS6, Sony Vegas Pro 10

**Certification:** Design for Six Sigma – Black Belt

## Professional Experience

### TESLA | FREMONT, CA

JANUARY 2017 – DECEMBER 2017

#### Manufacturing Engineer – Model 3 Launch Team (Intern, 12 months)

- Responsible for managing the firmware/electrical quality and repair systems for the Model 3 General Assembly line
- Designed and implemented the backend communication architecture as part of an advanced proprietary manufacturing technology
- Developed PyQt applications and Bash scripts to support production prototyping and quality analysis
- Integrated all firmware builds from initial MCU/APE provisioning to final assembly to validate hot-fix releases
- Resolved major delays caused by PLC and operator line-stop events to help reach the 5000 cars/week production ramp
- Analyzed and resolved issues in the vehicle ECU architecture via ETH, CAN, and UDS

### GENERAL MOTORS | WARREN, MI

MAY 2014 – AUGUST 2016

#### Electrical Issue Resolution Tracking Engineer – MY18 Corvette & Cruze (Co-op, 3 months)

- Led the root cause analysis and resolution for electrical build issues on the pre-production build floor and in the vehicle assembly plants
- Directed quality engineers and launch managers from Korea, Brazil, and Mexico to ensure root causes were identified, issues were contained, and corrective actions were implemented

#### Infotainment Integration Engineer – MY16 Camaro (Co-op, 4 months)

- Managed the MY16 Camaro infotainment integration efforts and supported the MY16 CT6, Corvette, K2XX, and Alpha programs
- Analyzed and diagnosed vehicle communication logs on HS/LS GMLAN, MOST, and ALDL codes that pertained to the infotainment system

#### Infotainment Software Validation Engineer (Co-op, 7 months)

- Developed enterprise-grade software to parse the Android-based system, while exposed to Agile software development
- Executed and improved test procedures on next-gen infotainment benches

### WIKIROSTER LLC | CHICAGO, IL

JUNE 2012 – JANUARY 2016

#### Co-Founder & Designer

- Launched and managed a 40,000 student marketing campaign across the United States through social media, brochure material, and a start-up video to promote the collaborative student website
- Raised over \$10,000 to fund operation and development costs
- 2013 winners of the IMSA Power Pitch hosted by the MIT Enterprise Forum
- Nominated as one of 1871's Top 50 "Coolest" startups in Chicago

## Leadership Roles

### PURDUE STUDENT ENGINEERING FOUNDATION (PSEF)

AUGUST 2014 - PRESENT

#### Director of Industrial Relations

- Served on the PSEF Board of Directors to maintain professional relations and raise funding with several industry sponsors
- Representing Purdue Engineering to prospective students at information fairs, tours, socials, and academic panels

## Personal Projects

### HACKATHONS

- iiCAN Tracker, a diagnostic data tool for fleet vehicle management
- Decepticar, turn signals and headlights seamlessly integrated into a bicycle helmet
- <https://devpost.com/kendrickl>