

JORDI PAKEY-RODRIGUEZ

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EDUCATION

B.S. Electrical Engineering

University of Illinois at Urbana-Champaign

May 2018

EXPERIENCE

Autonomy Hardware Engineer II

Autonomy Hardware Engineer

Uber Advanced Technologies Group

Sep 2019 - May 2020

Jun 2018 - Sep 2019

Developing state-of-the-art embedded autonomous vehicle systems and advanced automotive LiDAR.

Electrical Engineering Intern

Uber Advanced Technologies Group

May - Aug 2017

Uber ATG (formerly OTTO) is developing advanced autonomous tractor trucks for interstate shipping.

- Worked with multidisciplinary team of engineers and technicians to thoroughly understand and contribute to the design of an autonomous tractor truck.
- Designed mixed-signal test devices for autonomous drive-by-wire system, including schematic design, PCB layout, harness drawing, mechanical design, and fabrication.
- Used bench equipment to electrically test assembled boards and completed SMD soldering and rework.
- Used National Instruments data acquisition software and hardware to spoof and analyze signals from vehicle ECUs.

Technical Lead

Department of Curriculum Instruction, University of Illinois at Urbana-Champaign

Sep 2014 - May 2015

STELLARs (Standards and Technology Enriched Learning Lab and Array for STEEM) is a NSF-funded grant initiative to develop a novel K-12 learning system meant to simulate a NASA planetary exploration team.

- Created small Mars Curiosity-inspired rover to be used as a functional teaching tool for STEEM.
- Translated vision from Department Head of the College of Education to mechanical, electrical, and software designs.
- Oversaw design of online learning system meant to accompany the rover.

LEADERSHIP

Marching Illini

Aug 2013 - May 2018

Auditioned for and served as a Marching Illini Squad Leader during Sophomore year, a Section Leader during Junior year, and as one of three drum majors for the 2016 and 2017 seasons.

- Section Leaders are accountable for all aspects of their section. They are responsible for teaching and evaluating the section in both music and marching, as well as assigning alternates each week.
- Drum Majors are the student leaders of the band. They went through an intense audition process and are responsible for performing mace routines, conducting, and serving as role models for the rest of the band.

SKILLS

- **Web:** JavaScript, Node.js, Vue.js, HTML, CSS
- **Embedded:** ARM (STM32, LPC1100), AVR, RISC-V, C, C++
- **Manufacturing:** SMD Soldering, Laser Cutting, Waterjet Cutting, Welding, Bridgeport Milling
- **Software:** Git, Altium, KiCad, Eagle, SolidWorks, OpenSCAD, MATLAB + Simulink
- **Courses:** Semiconductor Devices, Digital Systems Lab, Intro to Robotics, Data Structures & Algorithms