**Jordan C. Lee**

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https://github.com/JLee21

**Education**

**The University of Arizona**, Tucson, AZ May 2014

Bachelor of Science in Mechanical Engineering

COURSEWORK

Machine Dynamics, Numerical Methods with MATLAB, Control Systems with MATLAB , Mechatronics (PIC Microcontroller), Fuel Cell Design, Thermodynamics, Engineering Statistics, Fluid Mechanics

**Udacity’s Self-Driving Car Engineer NanoDegree**

I’m currently a student in Udactiy’s NanoDegree program where I’ve successfully completed Term 1 which consists of self-driving car applications like deep convolutional neural networks and advanced lane finding with OpenCV. In Term 2, I will complete C++ projects related to Kalman filtering, sensor fusion of radar, LiDAR, and IMU as well as vehicle control and localization

**Mechatronics Project**

Self-guided semester project to create a Voltage Indicator to work in conjunction with an Engineering Cap Stone project. Elements included writing original C code to utilize a PIC 16f690’s ADC module as well as firmware for communication with an external LCD module. This is showcased at about.me/LeeJC

**Employment**

**Applications Engineer**, xodular Mining Systems, Tucson, AZ Nov. 2015 – March 2017

Develop a deep understanding of Modular Mining's Machine Guidance software suite

Travel to mine sites to deploy high precision GPS systems on mining equipment

Create batch/bash scripts to automate tasks such as telnet connections, file handling, Task Scheduling

Analyze high-precision GPS data and calibrations with SQL/Python/Excel tools

Revise and maintain custom C# file importers that are deployed on live production servers

**Controls Validation/Test Engineer,** Belcan Engineering, Green Valley, AZJune 2014 – Nov. 2015

Create, implement, and document Caterpillar's Autonomous Hauling System tests.

Utilize Caterpillar's proprietary software and tools as well as Linux-based OS systems.

Troubleshoot systems consisting of ECMs, I/O modules, and router/radios.

Optimize workflow with Bash scripts and analyze data with MATLAB/Excel

**Proficiencies**

**Programming Languages Machine Learning Microsoft Office Suite**Python MATLAB TensorFlow Keras Excel Word  
bash C Linear Regression/Classification PowerPoint Project

PIC assembly SQL Deep Neural Networks Visio

batch OpenCV