Jordan C. Lee

https://github.com/JLee21

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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, AZ June 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
Python MATLAB
bash C
PIC assembly SQL
batch

Machine Learning
TensorFlow Keras
Linear Regression/Classification
Deep Neural Networks
OpenCV

Microsoft Office Suite
Excel Word
PowerPoint Project
Visio