

Derek Lee Kok Fui

314 S Chauncey Ave Apt 12
West Lafayette IN 47906
(765) 430-6623
dklee@purdue.edu

Objective: To obtain a full time software position at a technology company.

Education

Purdue University, West Lafayette, IN
Bachelor of Science in Electrical Engineering
Bachelor of Science in Mechanical Engineering
Minor in Economics and Philosophy

Expected Graduation: May 2015

Skills

Computer Languages and Software:

- Python -- Full stack developer. Familiar with Flask, Numpy and Pandas for financial applications.
- C -- Microcontroller programming. Data structures.
- Java -- Android development.
- MATLAB -- Experienced in MATLAB applications for data analysis and iterative design.
- Others -- Linux, JavaScript, LabVIEW, Assembly, ABEL, SPICE, HTML, CATIA
- GitHub -- <https://github.com/derialstrazus>

Languages: English, Chinese, Cantonese, Malay

Leadership ability with experience leading multiple organizations and coordinating multiple projects.

Projects

Quant Test -- Back-testing Platform for Trading Strategies in Python

February 2015

- Developed python web application that allows users to back test custom quantitative trading strategies.
- Quant Test pulls historical data from the web and executes the trading strategy, showing analyses of the returns as a chart.
- Demo available at: <http://derekleekokfui.me/quanttest>

Chaos Conduit -- Online Multiplayer Android Game

March 2015

- Utilized a cloud server to host a game, allowing two players on separate devices to connect and play through the internet.
- Cloud server contains all relevant game information, allowing connectivity across multiple platforms.

Remote Materials Experiment Station for ECE402

Fall 2014

- Built an experiment station which allows users to remotely move hazardous materials on an experiment stage.
- Control features include a touchpad movement control, coordinate movement, location sensors and an electromagnet pickup.

Remote Control Surveillance Video Camera for ECE362

Spring 2014

- Built a surveillance video camera which allows users to remotely rotate the camera direction.
- Controls for the mount were implemented using a Freescale HCS12 microcontroller and coded in C.

Work Experience

Engineering Intern

Ezra Distributing via Interns for Indiana

May 2014 - August 2014

- Designed a new motorcycle carrier using CAD modeling based on customer feedback of existing products.
- Prepared patent drawings for a locking ball hitch prototype.

M&E Technical Executive

KASI Malaysia

June 2012 - December 2012

- Responsible for operating in-house navigational simulator and providing support during full mission ship simulations.
- Exposure to marine engineering, port planning, marine traffic analysis and simulation technology for ship navigation.

Research Assistant

Professor Gregory Shaver, Alternative Fuels Research

January 2012 – May 2012

- Conducted diesel engines experiments with emphasis on controlling exhaust gas recirculation and premix combustion.
- Improved an existing model for prediction of combustion timing during engine ignition.

Activities

National Rube Goldberg Machine Contest Chairman

Phi Chapter of Theta Tau Fraternity, Professional and Social Engineering Fraternity

May 2011 – April 2012

- Successfully hosted the 2011 Regional and 2012 National Rube Goldberg Machine Contest
- RGMC has contestants from across the US, an audience of up to 300 people, national coverage and a budget of \$30,000.