Lawrence Lee

EXPERIENCE

JUNE 2017 – AUGUST 2017

Sikorsky Aircraft Corporation, Connecticut

Software Development Intern

Created several applications to analyze point cloud data with PCL (Point Cloud Library). Designed a benchmarking application to measure performance of mesh generation methods. Developed a visualization module to create cross-sectional and top-down images of point clouds. Implemented usability improvements to existing point cloud data conversion and analytic tools. Built a tool to integrate several of the above-mentioned modules and tools for ease of use.

JANUARY 2017 – MAY 2017

DATA Laboratory

Software Developer

Utilized JSoup and JDBC Java libraries to implement program to process Amazon review data. Performed calculations to weight individual reviews based on personal review history to provide more accurate customer feedback to manufacturers and retailers. Employed Apache Lucene and Tika libraries to pre-process Tweets for sentiment analysis. Filtered tweets based on language and corrected spelling errors within Tweet body. Applied SQLite 3 Python library and language processing algorithm to process bulk Twitter data. Executed sentiment analysis on Tweets about specific products to provide manufacturers with more precise data on public product perception.

SEPTEMBER 2016 – PRESENT

Lion Tech Rocket Labs

Payload Subsystem Lead

Developed an autonomous autogyro payload to be launched out of a rocket mid-flight. Consolidated, streamlined, tested, and debugged C++ code from a multi-person team to ensure compatibility between modules. Devised flight control algorithm to automatically direct autogyro towards preset destination. Applied Adafruit libraries to program Arduino and XBee modules to ensure communication. Designed and fabricated electronic circuitry to integrate sensors, Arduino microcontroller, and communication components. Coordinated software development within a team of 3-4 people and enforced coding standards to improve code readability and utility.

274B Atherton Hall, University Park, PA 16802

☎ 610-996-7538

✉ lawrence.lee@psu.edu

⚡ www.lawrencelee.tk

EDUCATION

2016 – 2020	**Penn State University** *Schreyer Honors College*
DEGREES PURSUED	**Computer Science** *B.S. — M.S.*
AS OF SPRING 2017	**3.80 Major GPA** 3.63 CUMULATIVE GPA *Senior Standing*

PERSONAL PROJECTS

SOSL	A Java utility to automatically search Google and Stack Overflow for exceptions thrown during run-time.
GROUPME BOT	A GroupMe bot which corrects certain words sent inside a chat and re-sends a translated message

TECHNICAL SKILLS

PROFICIENT IN	C++, C, Java, Python, CMake, Linux Administration
FAMILIAR WITH	Bash Scripting, SQL, Javascript, Apache Maven

MULTIMEDIA SKILLS

PROFICIENT	Adobe Premiere, HTML, CSS
FAMILIAR WITH	LaTeX, Adobe After Effects, Adobe Photoshop

COMMUNICATION SKILLS

ENGLISH	Native speaker
CHINESE	Oral: good – Written: fair
SPANISH	Oral: fair – Written: fair