

# Lawrence Lee

## EXPERIENCE

JUNE 2017 – AUGUST 2017

Stratford, CT

### Sikorsky Aircraft Corporation

*Software Development Intern*

- Created several applications to analyze point cloud data with PCL (Point Cloud Library).
- Designed a benchmarking application to measure performance of geometric 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

University Park, PA

### DATA Laboratory

*Software Developer*

- Utilized JSoup and JDBC Java libraries to implement program to process Amazon review data.
- Employed Apache Lucene and Tika libraries to filter tweets based on language and correct 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

University Park, PA

### 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 steer 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.

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## 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

STACKOVERFLOW SEARCH	A Java utility to automatically search Google and Stack Overflow for exceptions thrown during run-time.
GROUPME TRANSLATOR	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, Docker
FAMILIAR WITH	Bash Scripting, SQL, Javascript, Apache Maven, Windows Administration, Doxygen

## MULTIMEDIA SKILLS

PROFICIENT	Adobe Premiere, HTML, CSS
FAMILIAR WITH	Ⓐ <sub>TeX</sub> , Adobe After Effects, Adobe Photoshop

## COMMUNICATION SKILLS

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