

# DANIELLE HU

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## EXPERIENCE:

### Quadrotor StuCo & Quadrotor Project

Carnegie Mellon University Robotics Club  
September 2014 - Present

- Taught students how to create and design their own Quadrotors using tools such as CAD Software, 3D Printers, and laser cutters.
- Currently developing an educational kit to deploy to high school students to engage students in the process of programming flight using Python.

### Protolab Undergraduate Research Project

CMU's Human Computer Interaction Institute  
September 2015 - Present

- Developing and adapting a classroom peer feedback system on a weekly basis. Using Node.JS (i.e. Socket.IO, Jade, etc.) for the server.
- Communicating with team with weekly SCRUMs.

### SPIRAL Undergraduate Research Project

CMU's Electrical and Computer Engineering  
February 2015 – May 2015

- Analyzed power efficiencies of CPUs by measuring elements such as clock frequencies while the devices ran GPU/Memory intensive tests.

## CONTACT:

Current Address:  
Carnegie Mellon  
University SMC 3822  
Pittsburgh, PA, 15289

Permanent Address:  
2707 Timacqua Drive  
Holiday, FL, 34691

## EDUCATION:

Carnegie Mellon University  
Pittsburgh, PA  
GPA 3.35/4.00  
May 2018

Bachelor of Science  
in Electrical and  
Computer Engineering

## PROJECTS:

### Philly Home Finder

Pennapps - 36 Hour Hackathon  
September 5 - 7, 2015

- Developed a web application that took civil data from Philadelphia, and based on parameters set by the user, mapped priorities of neighborhoods that best fits those preferences.
- Worked on the UI & UX of the application using HTML, CSS, Flask, and Google Maps API.

### The Piairno

Build 18 - Week Long Hackathon  
January 11, 2015 - Present

- Created wearable gloves that played piano in the air using Arduino Unos, which recorded changes in flex sensors sewn to the gloves and played tones at different frequencies accordingly.

### Wiki-Gen

Personal Project  
July 2015 - Present

- Created a web application that randomly generates Wikipedia articles using Markov Chains. Used SQLite to interact with the database of n-grams, and Flask for server-side interactions.

## SKILLS:

### Programming Languages:

Python

C

Javascript

SQL

### Web Development:

Node.js

Flask

HTML

CSS

### Creative Cloud:

Illustrator

Lightroom

Photoshop

InDesign

## ACTIVITIES:

**Project Ignite** - High School Mentoring Initiative (September 2015 - Present) - Project Manager

**The Tartan** - School Newspaper (January 2015 - Present) - SciTech Writer & Photographer

**Society of Women Engineers** (August 2014 - Present) - Chapter Member

**Women in Electrical and Computer Engineering** (August 2015 - Present) - Chapter Member