

Jake H. Lee

Email: jake.lee@columbia.edu

Phone: (702) 769-6482

Website: jakehlee.com

Education: **Columbia University**, SEAS, New York, NY
BS in Computer Science, Expected in 2019

Green Valley High School, Henderson, NV
IB diploma, Graduated in 2015

Experience: **Lamont-Doherty Earth Observatory** - Since Fall of 2015

Research Assistant

- Analyzing and interpreting solar radiation data from UAV platforms
- Unmanned aerial systems and instrumentation for data collection in marine and polar environments

University of Nevada, Las Vegas - Summer of 2014

Research Assistant

- Collected and analyzed data concerning the bitcoin market.
- Wrote and submitted a research paper presenting the conclusions.

University of Nevada, Las Vegas - Summer of 2012, 2013

Internship

- Helped plan and execute high altitude weather balloon launches.
- Developed a mathematical model for the behavior of a high altitude balloon in the atmosphere.
- Prototyped on-flight data recorders and path predictors.
- Wrote an extended essay presenting the conclusions.

Leadership: **Columbia Space Initiative** - Current

Flight Director, High Altitude Balloon Mission

- Planning and executing high altitude balloon missions.
- Increasing group presence through website development and local outreach.

Columbia Makerspace - Current

Superuser

- Curating and maintaining equipment and assisting with projects
- Experience with 3D printing, laser cutting, and other manufacturing

Related Skills: Programming/Markup Languages:

C/C++, Java, Javascript, Python, MATLAB, Mathematica, LaTeX, html, css

Research:

Data collection, technical writing, modeling, data representation

Projects: Columbia Space Initiative Website Development - Ongoing

Makerspace system - Ongoing

FTC Robotics - Head Programmer - 2011~2015

Bitcoin mining profitability calculator - 2013