

# Anna LIAO

EMAIL: [aliao22@gmail.com](mailto:aliao22@gmail.com)  
 GITHUB: <https://github.com/anna-liao>  
 LINKEDIN: <https://www.linkedin.com/in/annaliao1>  
 WORK ELIGIBILITY: U.S. Citizen / Canada: Open Work Permit (until 2020)  
 RESIDENCE: Calgary, AB, Canada

## SOFTWARE ENGINEER

*Systems development that spans the interface between hardware and software.*

- **Innovative Systems Engineer** with 5 years of experience in building remote sensor data acquisition systems that streams data over the Internet.
- **Managed Field Installations and Deployments** of data acquisitions systems while continuously monitoring and maintaining the system from end-to-end.
- **Broad knowledge base of software and hardware** - writes code in Python on Linux, and also knowledgeable of hardware communication interfaces, networking, server management, databases, and electrical characterization.

## EDUCATION

M.S. ROBOTICS, **Carnegie Mellon University**  
 B.S. ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, **UC Berkeley**

## TECHNICAL SKILLS

Software: Python, LINUX, BASH, GIT, MYSQL  
 Electrical: Oscilloscope, Multimeter, Function generator, Soldering

## WORK EXPERIENCE

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|-----------|--|
| 2011-2016 | <p>Sr. Scientific Engineering Associate<br/>LAWRENCE BERKELEY NATIONAL LABORATORY, Berkeley, CA, USA</p> <ul style="list-style-type: none"> <li>• Developed an automated grid event detection and notification application to alert users of voltage sags and voltage violations at the distribution substation.</li> <li>• Built systems with open source libraries and COTS hardware to stream power and sensor data from multiple remote sites.</li> <li>• Oversee system installation and field deployments at internal and remote sites, while continuously maintaining and monitoring the communication interface, servers and databases.</li> <li>• Configure various types of embedded computers to function as inexpensive, portable, remote systems that can control loads and report data to our local server.</li> </ul> |
| 2007-2011 | <p>Microdevices Engineer II<br/>NASA JET PROPULSION LABORATORY, Pasadena, CA, USA</p> <ul style="list-style-type: none"> <li>• Developed extreme environment sensors and electronics for space exploration.</li> <li>• Designed mask layouts, implemented devices with microfabrication processes and facilities. Characterized prototype devices with electrical and optical methods.</li> </ul>  |