

# Anna LIAO

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WEB: <http://anna-liao.github.io>  
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EMAIL: [aliao22@gmail.com](mailto:aliao22@gmail.com)  
WORK STATUS: U.S. Citizen / Canada: Open Work Permit (until 2020)  
RESIDENCE: Calgary, AB, Canada

## SOFTWARE ENGINEER

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*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.

## TECHNICAL SKILLS

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Software: Python, LINUX, shell scripting, GIT, PHP, MYSQL, JSON, REST API  
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>• Implemented 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>  |

## EDUCATION

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