

# Jacob Larkin

Nanuet, NY - Email me on Indeed: [indeed.com/r/Jacob-Larkin/aa97982aabdec7ed](https://www.indeed.com/r/Jacob-Larkin/aa97982aabdec7ed)

Willing to relocate to: New York, NY - Boston, MA - Seattle, WA  
Authorized to work in the US for any employer

## WORK EXPERIENCE

### Summer Intern

Brookhaven National Laboratory - Upton, NY - June 2015 to August 2016

(summer 2015, summer 2016)

Intern as part of DOE Science Undergraduate Laboratory Internship (SULI) Participated in ongoing work on Deep Underground Neutrino Experiment Ran simulations and analyzed results using C++ physics libraries

Presented work to group, created a poster of results,  
and wrote up results in a paper

2016

Modified existing C++ code to simulate a new detector design

Debugged existing C++ program which was not running properly

Wrote C++ program to analyze results of modified C++ simulation and plot  
a series of datasets using ROOT data analysis framework

Attended workshop on cold electronics (electronics submerged in liquid nitrogen) Helped write GUI for python  
scripts used to test electronics for the detector

2015

Wrote a custom C++ module for existing simulation software framework Used custom module to find deposited  
energy in the simulated detector Wrote a C++ analysis script using ROOT data analysis framework to  
calculate needed results from output of custom module

## EDUCATION

### B.S. in Physics

University of Rochester - Rochester, NY  
September 2013 to May 2017

### BS in Mathematics

University of Rochester - Rochester, NY  
September 2013 to May 2017

## SKILLS

Fortran (1 year), Linux (5 years), Python (3 years), C++ (4 years), C (4 years)

## ADDITIONAL INFORMATION

Familiarity with data analysis using Scipy and ROOT