

# Alexander Hay

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Chicago, IL

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## Skills

- Coding: Python, C, C++; Libraries: OpenCV, Git, ROS
- Design: AutoCAD, Solidworks, Inventor
- Programs: Linux, Windows/MS suite, NDS

## Experience

### CenturyLink - Design Engineer

Apr 2016 - Aug 2019

- Create infrastructure planning designs and reports for subdivisions, banks, and clinics
- Personally responsible for hitting deadlines, ensuring that construction crews have the proper plans and the customer receives service on time
- Communicated with lead, field, and CAD engineers to ensure the project met city/county/state requirements
- QA, foreseeing any potential issues and giving due diligence that the project runs smoothly

### Drive Spotter - Product Engineer

Jun 2015 - Jan 2016

- Developed prototypes using computer vision and machine learning tools
- Established partnerships with industry leaders to further prototype development
- Acted as many roles with a company in its infancy, addressing CEOs, investors, and vendors
- Conducted prior art research and assisted in writing, editing, and revising patents and proposals

### Rehabilitation Institute of Chicago - Research Intern

Jun 2014 - Sep 2014

- Collaborated with a team to create an adaptive wheelchair controller for spinal cord injury patients.
- Developed a machine learning program to calibrate and integrate IMU data streams.
- Utilized Matlab to analyze the efficacy of our human-computer-interface.
- Presented experiment results in an open forum setting.

## Education

### Iowa State University

B.S. Mechanical Engineering

Ames, IA

2014

### Northwestern University

M.S. Robotics

Evanston, IL

Expected 2020