Alexander Hay

3000 University Ave #8105
West Des Moines, IA 50266

(515)-229-2192   alexanderhay90@gmail.com

Skills

- Job experience with NDS, AutoCAD, C++, and Matlab
- Further job experience with Solidworks, OpenCV, and training in Inventor
- Adaptable and flexible, able to grasp new concepts quickly and effectively
- ILR Level 1 Spanish

Experience

CenturyLink - Design Engineer   April 2016 – Present

- 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 .
- Communicate regularly with lead, field, and CAD engineers to ensure the project meets requirements.
- QA, foreseeing any potential issues and giving due diligence that the project is accurate.

Drive Spotter Inc. – Product Engineer   June 2015 – Dec 2015

- 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.
- Created pictures, videos, and graphs highlighting the capabilities of the system.

Medline Industries: R&D Material Technician   Jan 2015 – May 2015

- Conducted tests, evaluating new and existing products for material properties.
- Trained extensively in GLPs, and ISO certified SOPs for material and device testing.
- Created multimedia (charts, graphs, and pictures) reports for PIs and customers.
- Worked on a team to develop a patent pending product.

Rehabilitation Institute of Chicago – Research Intern
June 2014 – Sept 2014

- Collaborated with a team to create an adaptive wheelchair controller for SCI 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, Ames, IA
May 2014

BS in Mechanical Engineering; concentration in biomedical engineering