

Zachary S. Nahman

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Education

Colorado School of Mines Golden, CO • January 2018 - Present
Master of Science, Computer Science [In Progress]

Regis University Denver, CO • August 2016 - August 2017
Non-Degree Seeking, Computer Science 3.8/4.0 GPA

Colorado School of Mines Golden, CO • Graduated Class of 2015
Bachelor of Science, Mechanical Engineering 3.0/4.0 GPA
Dean's List Award: 2015

Projects

Computer Aided Robotics for Welding (CAR-W)

- Executed an 11 month relocation (to Lockport, LA) site support contract for Wolf Robotics
- Conducted on-site operation for 9-axis Robotic Welding Gantry in marine application (shipyard)
- Performed experiments with latest automated path planning software
- Taught training courses to operators, production planners, and engineers

NASA 2015 Robotic Mining Competition

- Team Designed/Built/Tested a robotic rover for excavation of planetary surface simulant
- Served as Lead Engineer for excavation subsystem and served as NASA Liaison
- Designed and built a bucket-ladder for planetary surface excavation

Achievements and Certifications

Engineering Intern License - State of Colorado - July 2015

- Passed the Fundamentals of Mechanical Engineering examination in July of 2015

Eagle Scout - Boy Scouts of America - April 2009

- Lead the construction of duck houses and bird houses for Carter Lake in Loveland, CO

Skills and Qualifications

Software Packages: Robot Studio, Visual Studio, NetBeans IDE, LabVIEW, Microsoft Office Suite (Excel, PowerPoint, Access, Project, Word, OneNote), MATLAB, SolidWorks, MathCad, Minitab, Mathematica

Programming: Familiar with Java, C#, Python, C++, MATLAB, and L^AT_EX

Industrial Manufacturing: Familiar with CNC programming and operation with MasterCam, operation of hand mill and hand lathe, use of hand tools.

Teamwork, Goal Setting, and Communication: Excellent goal-setting, teamwork, and time management skills.

Employment

Wolf Robotics, a Lincoln Electric Company - Fort Collins, CO Summer 2014 - Present

Software Engineer Intern (January 2018 - Present)

- Project-based software implementation for robotic welding systems
- Generating reports on project milestones for defense industry

Project Engineer (June 2015 - December 2017)

- Integration of industrial automation solutions at customer facility
- Large-scale programming of robotic welding systems

Applications Engineer Intern/Assembly Technician Intern (Summer 2014)

- Designed fixture tool concepts in SolidWorks and performed robot reach analysis.
- Experience assembling robotic systems, wiring, circuit troubleshooting, and programming.

Colorado School of Mines - Golden, CO February 2013 - May 2015

Student Ambassador

- Provide hospitality to prospective students and their families by giving campus tours.

Pomeroy IT Solutions - Boulder, CO Summer 2012

Mid-Range Operator

- Responsible for loading, unloading, moving, and documenting media for IBM's Boulder data center.

Power Mountain Engineering - Fort Collins, CO September 2015 - Present

Volunteer Engineering Mentor

- Mentor for high school students interested in STEM careers.
- Helped students build a supersonic ping pong ball launcher. (2016)
- Assisted students in building a hovercraft from a kit (2017)

Last Updated: 12/10/2017