

# Zachary Nahman

www.zachnahman.com

GitHub: <https://github.com/znahman>

LinkedIn: <https://www.linkedin.com/in/zachary-nahman-50437a7b/>

Email : [zach.nahman@gmail.com](mailto:zach.nahman@gmail.com)

Mobile : ASK

## EDUCATION

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- **Colorado School of Mines** Golden, CO  
*Master of Science in Computer Science; GPA: 3.9* Jan. 2018 – Dec. 2019 (Expected)
- **Regis University** Denver, CO  
*Non-Degree Seeking in Computer Science; GPA: 3.8* Aug. 2016 – Aug. 2017
- **Colorado School of Mines** Golden, CO  
*Bachelor of Science in Mechanical Engineering; GPA: 3.0* Aug. 2011 – May 2015

## EXPERIENCE

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- **CSM Computer Science Graduate School** Golden, CO  
*Introduction to Linux (CSCI274) Teaching Assistant* Aug. 2018 - Present
  - **Office Hours:** Hold office hours for 2 hours per week to assist students with understanding Linux OS.
  - **Assignment Grading:** Grade 100+ scripting or programming assignments per week.
- **SSL Robotics LLC** Boulder, CO  
*Robotics Engineer Intern* May 2018 – Aug. 2018
  - **Software Testing - RSGS:** In support of the RSGS (robotic servicing of geosynchronous satellites) project, I built a test suite using Ruby within the COSMOS embedded hardware controller for testing of robot actuators. Project codebase is version-controlled using Git.
  - **Robot Operating System (ROS) Demos:** Integrated a Velodyne VLP-16 LiDAR module into ROS and used open source MoveIt package to plan paths for a 6 degree of freedom robotic arm. Presented demonstration to entire SSL Robotics Branch (roughly 60 people in attendance).
- **Wolf Robotics - A Lincoln Electric Company** Fort Collins, CO  
*Software Engineer Intern* Jan. 2018 - Feb. 2018
  - **Software Integration - Robotic Welding System:** Integrated control and safety software for a single robot, multi-station, robotic welding system. Developed scripts in the RAPID programming language for safe tool changing operations and welding of customer parts. Project codebase is version-controlled using Tortoise SVN.
- **Wolf Robotics - A Lincoln Electric Company** Fort Collins, CO / Lockport, LA  
*Project Engineer* Jun. 2015 - Dec. 2017
  - **CAR-W (Computer Aided Robotics for Welding):** Executed an 11 month relocation to Lockport, Louisiana to do on-site support and integration of a first-of-its-kind CAR-W enabled robotic welding gantry. CAR-W is automated path planning software for automatic generation of welding programs. I was the first to test the latest software release and provide feedback to the development team. I also attended agile code sprint meetings to drive development priority based on customer feedback (Similar to Scrum Product Owner Role).
  - **Operator and Weld Planner Training:** Taught training courses on-site for Robot Operators (x2 people in attendance) and Weld Planners (x6 people in attendance) interacting with the CAR-W software package.

## ACHIEVEMENTS AND CERTIFICATIONS

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- **Gogo C-MAPP Fellow:** Earned a scholarship from the CSM C-MAPP (Computing - Mines Affiliates Partnership Program) sponsored by Gogo Business Aviation.
- **1st Place Team Lead - CSM Newmont Innovation Challenge:** Served as Team Lead for the winning team in CSM's Newmont Innovation Challenge (May 2018). Proposed a novel system for improving underground mine safety and productivity using a 3D sensor mesh network. Proof of concept demonstrated using ROS, Velodyne Puck LiDAR, and Arduino. Won access to over \$10,000 in project funding.
- **Eagle Scout:** Earned the rank of Eagle Scout in the Boy Scouts of America (April 2009). Led my peers in the construction of bird houses and duck houses for Carter Lake in Loveland, CO

## SKILLS

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- **Programming:** Java, ROS, C++, Python, Ruby, C#, CUDA, PHP (Laravel), AWS S3, AWS CloudFront,  $\LaTeX$
- **Communication and Teamwork:** I am passionate about people, communicate well, and do my best work in teams.