

## CONTACT

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## Professional Experience and Skills

July 2019 – Current **Microsoft Corporation – Redmond, Wa**

Program Manager in Windows and Azure

: *Improved technology supporting updates of Windows operating system, with technical proof of concepts and data studies*

- Adapted legacy C++ code to prove viability of new binary delta method for PE32 executables
- Drove clarity and understanding of update size growth through modelling of file servicing probabilities using python.

Aug 2017 – Dec 2017 **Volvo Group Trucks – Gothenburg, Sweden**

Electrical Platform Architecture Intern in Trucks Technology

: *Designed modular autonomy structure for electronic control units (ECUs) to be used in both manual, assisted, And autonomous steering systems on current and future electric and autonomous trucks*

- Developed systems architecture plans
- Wrote test requirements for software unit-tests

Jan 2016 – June 2016 **BAE Systems Electronics Sector – Nashua New Hampshire**

Software development Co-Op student for Unmanned Aircraft

: *Designed and coded a system for classification of signals on embedded softcore processor, and automated API documentation saving money across multiple programs*

- Built parser to mimic GNU Compiler using C, Python
- Designed script that generated API documentation from source code

2014 – Current **Founder and Team Captain Unmanned Aerial Systems Team**

<https://uas.engr.psu.edu>

: *Founded and led the team to compete at the AUVSI SUAS competition*

- Recruited 35 members and raised \$34,000 from university and industry sponsorships
- Created most active robotics club on campus –assessed by number of active membership
- Designed image capture program on embedded Linux in C to capture thermal and visual images

2013 – 2014 **Formula SAE Team Machinist**

-Approximately 100 hours machining experience,

- Manufactured suspension system components using stainless steel and titanium stock.
- Met design specifications.

2014 Dec. Tutor for calculus and physics

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## Software Skills:

Languages: C / C++, Python, Javascript, Verilog

Tools: Git, OpenCV

Frameworks: Django

Web/Scripting: HTML, CSS, JQUERY

**\*Department of defense Secret Security Clearance granted June 2018**

## Education

2013 – 2019 **Pennsylvania State University**

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## Languages

**Norwegian** (fluent), **English** (fluent), **Spanish** (basic)