

# Alexander Wolfgang Hoppe

alex@hoppe.space

## Education

### Highline College, Des Moines WA

fall 2015 – present

- 3.9 GPA for AA with Emphasis in Mathematics
- Honors Scholar Program participant

### Home School

fall 2014 - present

- Running Start participant at Highline College
- Freshman year with the online school Columbia Virtual Academy: 4.0 GPA

## Skills

### Leadership/Project Management

- Multiple leadership roles including System Manager (Washington Aerospace Scholars), Renaissance Student (FIRST Team 3574), and outreach volunteer at Highline college.
- Designed, funded, and completed all goals of Kickstarter project Pie in Space.

### Computer Aided Design

- Adept in the CAD programs Solidworks and Autodesk Inventor.
- Experience: Honors in Engineering Design at Highline College, FIRST team 3574, and numerous personal projects from quadcopters to small robots.

### Programing/Web Design

- Adept in the programing language Python and other languages including Java with understanding of WordPress and HTML5 based website design/management.
- Experience: FIRST team 3574 programmer and as freelance web developer.

### HAM Radio

- FCC certified amateur radio technician. Call sign: KG7YRP

## Experience

### Renaissance Student, FIRST Robotics Team 3574

fall 2014 – present

- Designed and assembled many of the systems on roughly 150 lb. unique robots.
- Wrote and tested much of the code for said robot's autonomous and teleoperated functionality and taught new students how to program in Java and Python.
- Represented the team as a presenter for the prestigious Chairman's award
- Served as a robot driver, leading my team all the way to the world championships.

### System Manager, Washington Aerospace Scholars

fall 2015 – summer 2016

- Lead a team of high school students to create a presentation on a possible manned mission to Mars for distinguished engineers and scientists.

### Student Mentor, FIRST Lego League Team 17715

fall 2015 – spring 2016

- Mentored a group of young students (age 10 - 16) on the fundamentals of robotic design/programing and introduced them to the STEAM field.
- Lead 3, 4-hour meetings every week for the 22-week season.

### Lifeguard/Swim Instructor, Gregory Seahurst Swim Club

summer 2015, 2016, 2017

- Protected the lives of pool patrons and served as management's representative on the pool deck. Taught children of all ages swimming skills from basic to advanced.