ALEC THANIG

atb97@nau.edu | 520-891-2580

Summary of Qualifications:

Skills:

Good with people, work well in teams, excellent time management skills, work effectively with people from around the globe, passion for problem solving, quickly learns and adapts to new situations.

Proficient with: Excel, PowerPoint, Word, Java, C, Python, MatLab, Solid Works, Solid Works CAM, Tormach 770 machining, artCAM, Fusion 360, Blender, 3D printing , 3D printing Slicing Software.

Clubs and Organizations:

- Co-Founder of Flagstaff's 3D printed Prosthetic organization, e-NABLE as the Vice President
- Arduino Club content maker and Treasurer
- Three-year member of NAU's Collegiate Speech and Debate team with accolades
- Alumni of the Benjamin A. Gilman Scholarship

Education:

Northern Arizona University, Flagstaff, AZ, USA — Expected Graduation: May 2020
Bachelor of Science in Mechanical Engineering
Minors: Asian Studies, Mathmatics

Hanyang University, Seoul, Gyeonggi-do, Republic of Korea — Fall 2017 – Spring 2018
Full immersion in Korean language, culture, and Academia

Kyushu University, Fukuoka, Fukuoka prefecture, Japan — Summer 2017
Full cultural immersion in language, customs, and networking

Experience:

Moscow Institute for Steel Alloys Fablab 77: Intern — Summer 2019
Accomplishments: Worked with an internationally diverse team to complete projects on time. Used rapid prototyping to meet deadlines.

NAU: Residential College Ambassador — August 2018 – May 2019
Accomplishments: Organized educational and recreational events for over 150 students. Assisted residents with academic and personal problems.

Luther Automotive Vehicle Exchange: Executive Sales Manager — Summer 2016
Accomplishments: Developed a new customer database search that increased customer appointments and therefore, sales by 20%.

Projects:

Orthotic Hand Exoskeleton
As a team of 5, designed and built an orthotic hand exoskeleton to assist with grip, finger extension, arm supination, and wrist support for people with cerebral palsy. Design for first working prototype took entire semester, included extensive literature review, material analysis, CAD models, and redesigns.

Precious Plastic
Worked with a team of people from France and Russia to create an expo for precious plastic to be displayed in the 2019 Moscow MakerFaire. Used Fusion360 to design a molecular chess set to be 3D printed from recycled PLA.

e-NABLE Prosthetic arm printout and design
With a partner, customized and printed an UnLimbited prosthetic arm for a client. Used CAD knowledge to customize design to client and ensure a proper fit. Worked on multiple projects.

Solid Works CAD project to create a companion cube.
Demonstrated proficiency in SolidWorks by designing and assembling a companion cube with over 100 different parts. Constructed a written summary of the cube with total project time around 20 hours.