

GARVIT NAYYAR

(623)-230-9469

E-mail: garvit.nayyar@asu.edu

Self-motivated and enthusiastic student seeking assistantship opportunities. Have previous experience of teamwork, public speaking and leadership roles.

EDUCATION

Arizona State University, MS. Mechanical Engineering
Arizona State University, BS. Mechanical Engineering

Spring 2021 - Present
Spring 2017 – Fall 2020

SKILLS

Proficient

SOLIDWORKS, MATLAB, ANSYS, Outlook,
Microsoft Excel, PowerPoint, Word

Familiar

Python, Project

PROFESSIONAL EXPERIENCE

Physics Department, ASU: Teaching Aide

1/2021-Present

- Lead physics labs for freshman and sophomore year students
- Planned the labs to ensure maximum understanding and retention
- Graded lab reports and post-lab quizzes in a timely manner

Sun Devil Fitness Complex, Tempe, AZ: Fitness Program Coordinator

2/2018 – 12/2020

- Reached out to various schools and student organizations to collaborate and build communities
- Planned, organized and facilitated events to ensure maximum engagement
- Purchased all the required equipment in the excess of a couple of thousand dollars
- Provided customer service to patrons creating a welcoming and familiar environment
- Managed a staff of 15 Fitness Supervisors and 3 Fitness Managers
- Organized events for staff engagement to establish stress free and united work environment

ACADEMIC PROJECTS

Designing and manufacturing of A-arms for a race buggy (Capstone)

Spring 2020 – Fall 2020

- Designed front suspension arms for a race buggy based on constraints provided by owner
- Created and analyzed 3-D models using Solidworks and ANSYS respectively ensuring maximum mobility and strength
- Manufactured and tested the final design on racetracks ensuring improved performance

Analyzing and Testing Theories - Analysis using ANSYS

Fall 2019

- Analyzed some structures under various loads for various deformations and stresses.
- Used the analyses to test some of the basic theories
- Proved the basic theories for the given structures and verified the theories for the various loading.

Engine Design

Fall 2018

- Designed various parts of an engine and assembled them to form a full V12 engine on SolidWorks
- Animated the design to ensure the use of proper assemblies

Sustainable Development - Water Purification

Spring 2017

- Led team of four to design and develop a device to purify water and brought the pH to 6.9.
- Utilized purifiers like carbon and filter paper to further purify them and install it in a bottle for easy use.

VOLUNTEER WORK

Volunteer at Research Training Group (RTG @ ASU)

Spring 2021

Feed My Starving Children

Fall 2017

- Volunteered for a day to help package food for children in small villages in Africa

TYCIA Foundation (Turn Your Concern Into Action)

July 2016 - November 2016

- Taught underprivileged children till 5th standard basic Mathematics and Physics.