

# GARVIT NAYYAR

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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 5<sup>th</sup> standard basic Mathematics and Physics.