

MANNAT RANA

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EDUCATION

Studying at Arizona State University – Polytechnic Campus

2017-2018

- Undergraduate Sophomore majoring in Engineering (Robotics) with a minor in Applied Mathematics
- Barrett Honors College
- Current GPA : 4.00

Attended BASIS Peoria

2011-2016

- Current GPA: 3.83 unweighted, 4.59 weighted
- Graduated High Honors

EXPERIENCE

Engineering Teaching Assistant

- Became a teaching assistant for EGR 101 freshman year
- Required lecturing the class, being involved in in-class activities, and required out of class office hours and grading

Intern at Kutta Technologies

- Primary software tester at Kutta Technologies
- Exposed me to the engineering mindset and how to manage communication with other engineers who are working on different components of the same project

Nepal Study Abroad Program

- Spent 3 weeks abroad in Nepal throughout various cities
- Focused on three projects: harvesting invasive weeds to create biochar, providing STEM education at an elementary level in third-world countries, and solar-powered irrigation systems
- Improved my abilities to work in harsh conditions with people speaking a completely different language and cultures

Research Paper

- Wrote a research paper titled “Maximization of the Vertical Acceleration of a Quadcopter”
- Modified an off-the-shelf quadcopter in order to make it significantly faster
- Created a MATLAB simulation to simulate the same modifications and understand their effects

Competed at the 2017 VEX World Championships

- Gained experience in competing, learning how to improvise, and work under extreme pressure

Earned the Bechtel Scholarship

Completed Engineering Coursework

EGR 101 – Foundations of Engineering Design Project 1

FSE 150 – Grand Challenges for Engineering

MAT 267 – Calculus for Engineering III

EGR 102 – Foundations of Engineering Design Project 2

EGR 104 – Critical Inquiry in Engineering

FSE 201 – Engineering Undergraduate TA

PHY 121 – University Physics 1: Mechanics

EGR 494 – Engineering Communities in Energy and Education Innovation

EGR 201 – Use-Inspired Design Project 1

EGR 216 – Electrical Engineering Fundamentals

EGR 218 – Materials and Manufacturing Process

EGR 280 – Engineering Statistics

MAT 275 – Modern Differential Equations

Will Complete in the Next Semester

EGR 202 – Use-Inspired Design Project II

EGR 217 – Engineering Mechanicals Fundamentals

EGR 219 – Computational Modeling Engineering Systems

MAT 343 – Applied Linear Algebra

PHY 321 – Vector Mechanics and Vibrations