

# Jesse H. Rupe

UCSD Freshmen. Extremely driven with a strong work ethic and well-defined goals. Experience in CAD design, electrical computer engineering and cost problem solving skills utilized in order to reach the creative end-goal of the project. I dream of using my engineering skills and ideas to develop our world to be more efficient using fewer resources. **See a need, fill a need!**

## EDUCATION - Attending UCSD in the Fall 2022

### Temescal Canyon High, Lake Elsinore, CA — HS Diploma

August 2018 - July 2022

- Current Cumulative GPA: 4.55 & High Honors every Semester
- Courses in AP Stats., Engineering Design, AP Physics, IB Math
- Valedictorian in 9th, 10th, 11th, and 1st Semester 12th Grade
- SAT Math: 800; SAT EBRWS: 700; ACT 34 Composite
- Engineering Academy & Career Technical Award

### Canyon Lake Middle, Lake Elsinore, CA — MS Graduation

August 2015 - June 2018

- Graduated #1 in Class Boy of the Year & High Honors every Semester
- Board Member of the Caring Cougars Club for 2 years (Raised \$5000 for a well in Africa w/ the Water for South Sudan Org)

### UC San Diego, CA, current undergraduate

July 2022 - Now

- Mechanical Engineering w/ the Idea Scholars program & SEI

## ENGINEERING PROJECTS & SCHOLARSHIPS

- Entered the speaker and other projects into the NSHSS Be More Fund - \$10,000 for top 10 contestants. Entered into the finals for the top 40 projects. Got 20th-30th place out of 200+ competitors.
- Won the NSHSS Good Earth Sustainability Scholarship
- Speaker that changes size to the beat of the music (200 hours)
- Self Constructing Rail System (250 hours)
- Rotating motorized octopus (30 hours)
- Motorized panel on an arm (30 hours)
- Glove controller and motorized fist shield (20 hours)
- Cinematic motion control slider for a 40 pound camera(150 hours)
- 70 Page philosophy thesis on Consciousness(60 hours)
- Currently entered into the Dyson Award, Davidson Fellows scholarship, and the Eon Essay Contest w/ many smaller competitions.

## WORK HISTORY

### Home Tutor — Self

January 2018 - 2020

- Evaluated college student progress in Statistics and Algebra
- Tutored a HS Student with asperger's syndrome for 1 year

### Cinematic Grip & Technician (50+ hours)

- Engineered camera slider equipment
- Developed in-depth knowledge on assembling Grip equipment

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## SKILLS

Mechanical Engineering and Production

Leadership & Problem Resolution

CAD Design

Electrical Engineering

Coding & Website Design Experience (Python, HTML)

Math skills (Statistics, Calculus, Physics)

## PROFICIENT IN

Arduino Electronics/Coding

Fusion 360

Solidworks

Google & Microsoft Apps

Dreamweaver

Desmos/TI-84+

3d Printing/Maintenance

Workshop Skills/Soldering

## COMMUNITY SERVICE

20+ hours Track & Field Service

2 hours weekly in Caring Cougars for 2 years (roughly 120 hours)