ARNAV ASTHANA

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PROFILE

Mechanical engineering student who designs in CAD and builds what he designs: competition robot drivetrains and subsystems, reef tank systems, and practical suspension and engine work on his own car. Seeking internships and part-time roles in mechanical, manufacturing or design engineering.

EDUCATION

Mechanical Engineering Transfer Pathway - De Anza College | 4.0 GPA **June 2026-Present**

- Pursuing TAG transfer to UC Davis Fall 2028

High School Diploma - American High School - Fremont, CA **June 2026**

ENGINEERING EXPERIENCE

Mechanical & CAD Team Lead - FRC Robotics Team 2489 **2024-2025**

- Led the mechanical and CAD subteams through design, fabrication, and assembly of a competition robot.
- Designed and assisted in designing elevator, shooter, electronics bed and chassis supports in Fusion 360, assembled and ran interference tests as well as tests under competition match conditions.
- Led fabrication: cut aluminum parts and CNC routed polycarbonate parts.
- Redesigned the elevator drive after failure due to skipping of sprockets under carriage weight. Designed a fixed gear drive system, eliminating failures while also allowing us to run motor speed up to 4.5 × higher.
- Placed 5th overall at the 2025 Contra Costa Regional, competing against 48 teams.

TECHNICAL PROJECTS & SKILLS

Reef Aquarium System **2026**

- Designed and built the full system for a 30 gallon tank: stand, sump, plumbing, overflow, and lid under space and budget constraints. Incorporated power outage fail safes such as siphon breaks.

2016 Audi S4 **2025-Present**

- Disassembled front strut assemblies to install lowering springs.
- Built and followed a service schedule for engine, suspension, and transmission components.

SKILLS

- Fusion 360, DXF exports for cut parts, mechanical assembly, hand and power tools.

EXPERIENCE

Founder & Lead Photographer/Videographer - ARNAV.MEDIA **2022-Present**

- Built and operated an independent contract based business serving clients all across the Bay Area.

Social Media Manager - Aquatic Collection **2026-Present**

- Run social media, driving website and in-store sales while also increasing social media presence.

Videographer & Photographer - JT Window Tint & PPF **2025-2026**

- Produced content for a professional automotive tint, paint protection, and paint restoration business.