

Aarathi Devakumar

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EDUCATION

Texas A&M College of Engineering | B.S in Mechanical Engineering

College Station, Texas – May 2028

GPA: 3.83

Extracurriculars: Theta Tau Co-Ed Engineering Fraternity, Society of Women Engineers (SWE), American Society of Mechanical Engineers (ASME)

SKILLS

Skills: Robotics, Autodesk Inventor, Fusion 360, Solidworks, Onshape, 3D Printing, CAM, Java, Python, HTML, CSS, Matlab, Soldering, Embedded Systems, Problem-Solving, Project Management, Social Media Content Creation

Interests: Robotics and Mechatronics, Design, Social Media, STEM Education, Fashion Design, Sustainability

Awards: Girl Scout Gold Award, President's Volunteer Service Award, VEX Robotics IRHS Service Award

RELEVANT EXPERIENCE

T.U.R.T.L.E Robotics | College Station, TX

March 2024 – Present

Fashionable Assistive Spinal Harness Project Lead

May 2025 – Present

- Guided a team to design a wearable smart corset to alleviate back problems and improve posture
- Combined interdisciplinary skills in fashion design and embedded systems to enhance wearability and aesthetics

Quadrupedal Team Member

March 2024 – Present

- Established sketches and collaborated with team on chassis and leg performance weight ratio through SolidWorks
- Designed a sturdy test stand for a quadrupedal robot to explore movement capabilities
- Developed detailed and multicolored CAD models through SolidWorks and designs for additive manufacturing

STEM Chinese Association for Science and Technology at UT Dallas | Student Researcher | Richardson, TX

June 2024 – July 2024

- Conducted research on edible robotics, an upcoming field in the robotics industry
- Analyzed vegan food products and conducted various material and trial-and-error tests
- Compared non-edible vs edible materials using tensile and hydrophobicity tests

TAMUHack | *Hardware Competitor* | College Station, TX

January 2025

- Designed a 3D-printed stable base structure in SolidWorks for a missile guiding system in a competitive field of 460+ Texas university teams
- Soldered and wired sensor connects to Arduino, ensuring reliability and functionality for the design overall

WIRED (Women in Robotics Engineering and Development) | College Station, TX

August 2024 – Present

Development Committee - Public Relations Officer

November 2024 – Present

- Planned various events to connect various WIRED teams together
- Collaborated with team and identified available times and locations, also managed calendars and spreadsheets
- Designed aesthetic social media content to enhance online interaction and presence of the organization through Canva

VEX U Robotics Mechanical Team Member

August 2024 – February 2025

- Engineered and refined drivetrain chassis for mobility
- Optimized scoring mechanism prototypes, such as chain intake and pneumatic hook through iterative testing
- Utilized specialized robotics materials for advanced prototyping

WORK / INTERNSHIP EXPERIENCE

ENDEAVR Institute | Student Intern | College Station, TX

July 2025 – Present

- Internship through course URPN 203 (Smart Cities - Bit, Bots and Beyond)
- Explored historic perspectives of technological urbanization to create new solutions in urban sustainability
- Strategized future-proof policies to address challenges in transportation, climate change, and economic growth

Engineering Academic and Student Affairs | Hullabaloo U Peer Mentor | College Station, TX

August 2025 – Present

Teaching Assistant

- Assisted over 300+ freshmen in general engineering courses (Engineering Computation Lab, Physics Mechanics Lab)
- Graded students' homeworks and exams and provided constructive feedback for student improvement and success within class
- Provided office hour support outside of classroom to ensure student success

Hullabaloo U Peer Mentor

- Provided valuable mentorship and advice to 30 first-year engineering students for their success

Violin and Piano Tutor | *Self-Employed* | Wylie, TX

July 2022 – August 2024

- Adapted a piano and violin curriculum to encourage students to perform successfully
- Tutored around 10 children in the Seis Lagos Community on how to play piano and violin