Akhil Marri

akhilm28@stanford.edu ❖ (434) 235-0695 ❖ Stanford, CA ❖ linkedin.com/in/akhil-marri

EDUCATION

Stanford University **Class of 2028**
BS Electrical Engineering *Stanford, CA*

WORK EXPERIENCE

Stanford Solar Car Project **Sep 2024 – Present**
President & Electrical Engineer & Race Driver *Stanford, CA*

- Leading a 40+ member team and leading efforts to design and manufacture Stanford's next-generation solar car for the 2027 World Solar Challenge – the team's first entry since 2019.
- Engineer high and low voltage systems, including electrical harness manufacturing, solar array integration, custom battery pack design, and work on custom PCBs.
- Drove Azimuth (our current vehicle) 675+ miles on solar power to a 2nd place at the Formula Sun Grand Prix, outperforming 30+ teams.

Amazon (Prime Video AI Generation) **June 2025 – Sep 2025**
SDE Intern (Full-stack) *Seattle, WA*

- Designed and implemented an automation tool that streamlines training and evaluation of video, image, and tagging ML models powering Prime Video cover art and trailer generation.
- Enabled the PV Science team to run preproduction models on the entire Prime Video catalog (100,000+ titles) instead of a select ~1,000 manually downloaded titles, while reducing evaluation times from 4 weeks to 5 hours.
- Built scalable pipelines leveraging AWS SageMaker, Lambda, Step Functions, EC2, S3, and DynamoDB.

Monroe Robotics **Aug. 2020 – May 2024**
Founder & Lead Engineer and Designer *Stanardsville, VA*

- Directed a 15-member team of students to design and build award-winning robots, earning a #1 among 84 teams in Virginia and #3 among 224 teams in the VA/MD/DC region.
- Developed an advanced sensor fusion algorithm using dead wheel encoders, computer vision (TensorFlow), and laser ranging modules, enhancing autonomous vehicle precision, allowing tracking to <1cm error.
- Leveraged 3D printing, CNC machining, and laser cutting to bring CAD designs to life.

Blue Ridge Boost **April 2024 – Aug. 2024**
Lead Programming and Robotics Instructor *Charlottesville, VA*

- Delivered hands-on programming lessons in Python (PyTorch, Pandas, NumPy, SciPy), Advanced C++, HTML, JavaScript, and Unity game engine scripting to groups of 5-15 students.
- Spearheaded curriculum development for hands-on robotics, directing and mentoring a team of assistant instructors.

CERTIFICATIONS, SKILLS & INTERESTS

- **Skills:** KiCAD, Altium, CAD (OnShape, Fusion 360), Programming (C++, Java, Python, React, R), AWS
- **Interests:** Pickleball; Guitar; Watching Football; Hiking; Tetris