

# SHIVIN RAJESH ANAND

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## EDUCATION

### MIDDLETON HIGH SCHOOL

Tampa, FL

Engineering Magnet; **GPA: 3.9**

May 2026

**Relevant Coursework:** AP Calculus BC, AP Physics 1, AP Physics C Mechanics, Process of Engineering Design, Technical Design, Digital Electronics, Computer Integrated Manufacturing, Aerospace Engineering Fundamentals

## EXPERIENCE & INVOLVEMENT

### USF

Tampa, FL

Head Researcher

May 2024 - Present

- Rapidly prototyped over **10 iterations** for a hydroponic plant growing apparatus in the span of 1 month
- Designed and tested a PCB to monitor the well-being of the plant via nitrogen, oxygen, and temperature
- Implemented a multiple camera sensor system that records the roots, stem, and top of plant to allow for fully autonomous monitoring of the plant
- Integrated a irrigation system with a 2 part reservoir system what keeps fresh water flowing next to the roots constantly

### Middleton High School Robotics

Tampa, FL

President

Apr 2025 – Present

- Managed **over 100 students** who pursue their interests in robotics through competitions in FIRST and VEX robotics.
- Spearheaded Team #1369 to win the **Rising All-Star** award at the **FIRST World championship**
- Organized **9 teams** to participate in over 15 robotics regional competitions spreading across 4 VEX robotics teams, 4 First Tech Challenge teams, and one FRC team
- Led **two** state qualifying FIRST Tech Challenge teams in the 2024-2025 Into the Deep season. Teams 1369 and team 26588.
- Piloted Team 1369 (FRC) to winning **FIRST Engineering Inspiration Award** at 2025 Tallahassee Florida Regional and **Rising All-Star** award at the FIRST Mami-Vally Regional

### Florida Student Association of Mathematics

Tampa, FL

Webmaster

June 2023 – Present

- Developed and maintained website using HTML, CSS, and Javascript, including troubleshooting and optimization
- Oversaw Florida's **largest** student-led mathematics organizations, assisted with scheduling and administering events, competitions, and the organization of communications channels to ensure students were aware of all events each year

## CERTIFICATIONS/AWARDS

### Robotics Education & Competition Foundation & Design

Tampa, FL

- RECF Robotics - Robotic systems
- RECF Programming - Program Development · C (Programming Language)
- RECF Electrical - Electrical Engineering
- RECF Fundamentals of Engineering - Engineering
- RECF Mechanical - Mechanical Engineering
- Autodesk Inventor Certified User - Computer-Aided Design (CAD)
- Autodesk AutoCAD Certified User - Digital Drafting (CAD)
- Autodesk Fusion 360 Certified User - Computer-Aided Design (CAD)

### Miscellaneous

- PMI Project Management Ready - Project management, business analysis, and traditional and agile methodologies
- LE-1: Linux Essentials - Processes, programs and components of the Linux based operating systems
- Microsoft Certified: Azure Fundamentals - Foundational level knowledge of cloud services provided with Microsoft Azure
- CompTIA IT Fundamentals (ITF+) - Proficiency in IT, software, networking, and security
- IT Specialist - HTML and CSS - Web Page structure - HTML elements, styles using CSS

### Awards

- State Science and Engineering Fair Merit award in Environmental Engineering
- NASA Earth System Science Award at 2025 Hillsborough Regional STEM Fair
- FIRST Robotics Challenge Engineering Inspiration Award at 2025 Tallahassee Florida Regional on Team 1369
- FIRST Robotics Challenge Rising all star award at Mami-Vally Regional and World Championship