**Fnu Yashwanth Gowda**
yashgangatkar@gmail.com | 623-533-9340 | LinkedIn | Portfolio

Master's student in **Robotics & Autonomous Systems** (Arizona State University) with a strong foundation in **Mechanical Engineering**. Skilled in **autonomous navigation, control systems, ROS2, SLAM, and multi-sensor fusion**, with proven experience in **CAD/FEA, cybersecurity frameworks, and cross-disciplinary projects**. Adept at applying theory to practical robotics systems, with strong coding skills in **Python, MATLAB, C, and Java**. Seeking **full-time roles in robotics, automation, and autonomous systems engineering**.

## Education

**Master of Science, Robotics and Autonomous Systems (Mechanical & Aerospace Engineering)** **May 2026**
Arizona State University (ASU), Tempe, AZ

**Bachelor of Engineering, Mechanical Engineering** **Sep 2023**
Bangalore Institute of Technology, Bengaluru, India

## Technical Skills

- **Programming & Robotics:** Python, MATLAB, C, Java, ROS/ROS2, Arduino
- **Autonomy & Controls:** Motion Planning, Control Systems, SLAM, Multi-Sensor Fusion
- **Mechanical & Simulation:** SolidWorks, CATIA, Solid Edge, ANSYS, FEA, CNC Train
- **Tools & Platforms:** MS Office (O365), Airtable, Adobe Acrobat
- **Cybersecurity (Complementary):** ISO 27001, NIST CSF, GDPR, Defender, SAFEScore.ai, KDMARC, Infosec IQ

## Professional Experience

**Cybersecurity GRC Intern – CyRAACS, Bengaluru, India** **Mar 2022 – Jan 2023**
- Implemented InfoSec protocols, reducing enterprise threat exposure by 50%.
- Conducted compliance audits (ISO, NIST, GDPR), strengthening cybersecurity posture.
- Collaborated with cross-functional teams to enhance system resilience and data governance.

**Mechanical Design Intern – GTTC, Bengaluru, India** **Sep 2021 – Sep 2021**
- Designed and optimized 3D models in CATIA V5, improving design cycle efficiency.
- Executed FEA simulations to validate structures, reducing design flaws by 30%.

**Software Intern – IC Solutions, Bengaluru, India** **Aug 2020 – Aug 2020**
- Built data-driven social analytics tools; optimized code execution by 15%.
- Contributed to software testing and debugging for client-facing applications.

**Office Assistant (Part-Time) – Sapthagiri Group, Bengaluru, India** **Jan 2019 – Jul 2024**
- Streamlined scheduling, vendor coordination, and documentation, supporting operational efficiency.

## Robotics & Engineering Projects

**Autonomous Warehouse Patrolling Robot – ASU** **Jan 2025 – May 2025**
- Developed ROS2-based patrol robot integrating LiDAR, IMU, depth sensors for real-time navigation.

**Debris Detection using Swarm Robots – ASU** **Aug 2024 – Dec 2024**
- Designed decentralized multi-robot system in MATLAB with SLAM-enabled mapping.

**Microcontroller-Based Line Follower AGV – BIT** **Aug 2021 – Aug 2022**
- Built Arduino-based AGV with IR sensors for factory floor material handling.

**Thermal Analysis: Porous Enclosures – BIT** **Feb 2021 – Aug 2021**
- Performed ANSYS thermal analysis to improve heat dissipation in robotics enclosures.

## Leadership & Community Engagement

- Volunteer, **Southwest Robotics Symposium (SWRS 2024)** – ASU, Ira A. Fulton Schools of Engineering
- Volunteer, **International Students & Scholars Center (ISSC), ASU** – Cultural & student engagement
- Volunteer, **Cognition (COVID-19 initiatives)** – Food drives, awareness campaigns, Bengaluru
- Volunteer, **Samskruthi Club, BIT Bengaluru** – Cultural & student engagement