





Fnu Yashwanth Gowda

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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

Arizona State University (ASU), Tempe, AZ

Master of Science, Robotics and Autonomous Systems (Mechanical & Aerospace Engineering) – Expected May 2026

Bangalore Institute of Technology, Bengaluru, India

Bachelor of Engineering, Mechanical Engineering – Sep 2023

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