FNU YASHWANTH GOWDA

yashgangatkar@gmail.com | 623-533-9340 | linkedin.com/in/nmyashwanthgowda

Aspiring Robotics Engineer with a strong foundation in mechanical engineering and hands-on experience in cybersecurity and compliance. Proficient in CAD/CAM, automation, control systems, and a range of programming languages, including MATLAB, C, Java, and Python. Currently upgrading with a Master's in Robotics and Autonomous Systems, seeking summer internships and full-time roles in industrial robotics, automated vehicles, controls engineering, and automation.

EDUCATION

- **Master of Science** in **Robotics and Autonomous Systems (Mechanical and Aerospace Engineering)** ***May 2026***
  Arizona State University, Tempe, AZ, USA
- **Bachelor of Engineering** in **Mechanical Engineering** ***September 2023***
  Bangalore Institute of Technology, Bengaluru, India

TECHNICAL SKILLS

- **CAD Software:** Solid Edge, CATIA, Solid Works, CNC Train, and **Simulation Tools:** Ansys, MATLAB
- **Programming Languages:** C, Java, Python, Robotic Operating Systems, Arduino, and **Microsoft Office**
- **Cybersecurity Skills:** Risk assessment, incident management, security auditing, Patch Management, Cybersecurity Frameworks (ISO 27001, HIPAA, NIST CSF, CCPA), Phishing Attack Monitoring and **Security Tools**: Microsoft Defender 365, SAFEScore.ai, KDMARC, Infosec IQ (for cybersecurity-focused tasks)

PROFESSIONAL EXPERIENCE

Cybersecurity GRC Intern at **CyRAACS** ***March 2022 – January 2023***

- Implemented InfoSec protocols, reducing threat exposure by **50%** and ensuring full compliance with **ISO, NIST, GDPR**.
- Conducted **information security audits** and collaborated with cross-functional teams to enhance system resilience, contributing to risk mitigation across multiple environments, and demonstrating strong **communication and analytical** skills.
- Assisted in **risk assessments and incident management**, proactively strengthening cybersecurity frameworks to protect critical infrastructure. Worked closely with clients to tailor security strategies

CATIA Intern at **GTTC** ***September 2021 - September 2021***

- Designed and optimized **3D models using CATIA V5**, improving product development efficiency and precision.
- Performed **Finite Element Analysis (FEA)** and structural simulations, reducing design flaws by **30%** and improving overall product reliability, worked in a **collaborative environment**, and independently handling complex design tasks.

Java with OOPs Intern at **IC Solutions** ***August 2020 – August 2020***

- Developed and deployed **data-driven tools**, including Instagram Profile Growth Rate and YouTube Subscriber Growth Calculators, enhancing social media analytics.
- Created **problem-solving applications** such as the Feedback Rating Calculator and Fortune Cookie Simulator, improving software functionality and user engagement.
- Optimized code efficiency, reducing execution time by **15%**, enhancing overall **application performance and scalability**, while collaborating with a **team of developers**, showcasing adaptability, problem-solving, and **time management skills**.

Office Assistant at **Sapthagiri Group, Bengaluru, India (Part-Time)** ***January 2019 – August 2024***

- Streamlined daily administrative tasks by scheduling meetings, managing documents, and supporting efficient communication across teams, ensuring seamless office operations.
- Enhanced office processes through data entry, inventory tracking, and vendor coordination, improving efficiency.

ACADEMIC PROJECTS

- **Effect of Inclination on Natural Convection in Porous Enclosures** ***February 2021 to August 2021***
  Performed thermal analysis with ANSYS to investigate heat transfer in porous enclosures, designing thermal management systems for robotics enclosures.
- **Microcontroller-Based Line Follower Automated Guided Vehicle** ***August 2021 to August 2022***
  Created an automated guided vehicle (AGV) using Arduino, incorporating sensors for transporting materials within a factory, aimed at enhancing automation in manufacturing industries, showcasing skills in automation and real-time control systems, logistics and industrial automation**.**
- **Debris Detection using Swarm Robots** ***August 2024 to December 2024***
  Designed and simulated a decentralized swarm robotics system using MATLAB, implemented SLAM algorithms to facilitate efficient navigation & debris detection & confirmed the swarm's capability to work together autonomously in mapping debris
- **Autonomous Warehouse Patrolling Robot** ***January 2025 to May 2025***
  This project demonstrates a scalable and low-cost robotic solution for structured warehouse environments. It uses multi-sensor fusion (LiDAR, IMU, Depth) and layered ROS 2 control architecture to enable fully autonomous patrols.

COMMUNITY ENGAGEMENT/EXTRACURRICULAR ACTIVITIES

- **Ira A Fulton Schools of Engineering – Arizona State University** ***October - November 2024***
  Volunteer for Southwest Robotics Symposium (SWRS) 2024, Assisted in event organization.
- **Cognition, Bengaluru** ***April 2021 - August 2022***
  Participated in humanitarian initiatives, including food donation drives and COVID-19 awareness campaigns.