

Shaik Ayman Hameed Baig

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Career Objective

A passionate technology enthusiast and hands-on builder seeking a consumer electronics or R&D internship. I specialize in embedded systems, AI integration, and hardware-software co-design.

Core Skills

- Embedded Systems: ESP32/ESP32-CAM, OLED, GPIO, DAC/PWM
- Programming: C/C++, Python, Java, JavaScript
- Hardware Tools: Circuit Design, Prototyping, Sensor Integration
- Software Tools: ROS2, Isaac Sim, Firebase, MySQL, OpenAI API, Tailwind
- Domains: Consumer IoT, Computer Vision, Cybersecurity, Robotics

Key Projects

- Portable Oscilloscope: ESP32-based diagnostics with OLED + Web UI
- ESP-GPT: GPT-powered AI assistant on ESP32 with OLED UI
- Cybersecurity IoT Platform: Blockchain-secured ESP32 with OTA (Hackfest Top 5)
- Cart Sentinel: ESP32-CAM smart trolley with Firebase (DayZero Top 10)

Industry Experience

- Sony SSUP: Pipeline Inspection Robot (Simulation Lead, \$20K+)
- IIT Guwahati & SRMIST: Coral Monitoring Robot (Hardware Lead, \$26K)
- SRM Shuttle Tracker: Live GPS app (In Development, \$1.8K)
- IEEE SRM Robotics: Project Lead, led 20+ members

Achievements & Leadership

- \$47,800+ in cumulative project funding
- Top 5 and Top 10 national hackathon placements
- IEEE Robotics: Project Lead
- Open-source contributor: github.com/Shaik0Ayman

Education

B.Tech in Electronics & Communication Engineering
SRM Institute of Science & Technology (2021-Present)