

# GOLLENA SATHISH

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## PROFESSIONAL SUMMARY

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Embedded Engineer with Hands on experience with STM32F401RBT6 Microcontroller, Bare Metal Programming and Wideband Jammer, RADAR Integration and Testing for Anti-Drone Systems. Skilled in Bare metal programming, HAL Programming and RF testing. Seeking opportunities to contribute expertise to advanced technology projects.

## EDUATION

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**Kakatiya Institute of Technology and Science, Warangal**  
*Bachelor of Technology in Electronics and Communication Engineering*

**CGPA: 8.04**  
*2024*

## WORK EXPERIENCE

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- **Jr Embedded Engineer** **May 2024 - Present**  
**UNISTRING TECH SOLUTIONS PVT LTD**
  - Currently contributing to the Integration, Testing, and Validation of the Wideband Jammer and RADAR in the Anti-Drone System project, ensuring system reliability and performance in the defense electronics domain.
  - Flashing SDR's using JTAG Module
  - Collaborating with cross-functional teams while gaining expertise in project modules, components, and the Bill of Materials (BOM) to meet operational and project specifications.

## PROJECTS

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- **Wideband RADAR And JAMMER** **May 2024-Present**  
*Radio Frequency*
  - **Tools & technologies used:** Vivado HLS, PICKit3 Programmer ,Erasynth, Hercules
  - Testing RADAR and JAMMERs for Anti-Drone Systems, Including LRU integration and RF module validation for reliability and functionality.
  - Gaining expertise in advanced testing instruments like Spectrum Analyzers and Signal Generators for precise debugging and measurement.
- **SMART WEATHER MONITORING SYSTEM** **Aug 2025- October**  
*Embedded C*
  - **Tools & technologies used:** STMCUBE MX, Keil uVision5, Docklight, TeraTerm
  - **Microcontroller Used:** STM32F401RBT6.
  - This project involves designing a weather monitoring system using the STM32F401RBT6 microcontroller. The system collects temperature data from an LM35 sensor every 5 seconds and displays it on a 16x2 LCD along with real-time updates from a DS1307 RTC. The data is sent to a remote server via WIFI (ESP8266) when internet connectivity is available. If no internet is detected, the system stores the latest temperature and timestamp in an EEPROM for offline retrieval. The project utilizes both bare-metal programming and HAL libraries for development.
- **ATM Simulation System**  
*C++*
  - Many people, especially students and beginners, do not have practical experience in using an ATM before their first real transaction. They might find it confusing to check their balance, withdraw, or deposit money securely. A ATM Simulation System helps users understand ATM functionalities in a safe environment without financial risks, making them confident while using real ATMs.
- **Monitoring Free Disk Space and Send Email Alert**  
**Linux Shell Scripting**
  - Tools & technologies used: Ubuntu
  - Developed a shell script to monitor disk space usage and automatically send email alerts if usage exceeds defined thresholds, ensuring proactive system maintenance and preventing downtime.

## TECHNICAL SKILLS

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**Programming Skills:** C Programming, Embedded C, C++

**Communication Protocol:** UART, I2C, SPI

**Debugging Tools:** GDB, SW Debugger

**Electronics:** Analog Electronics, Digital Electronics

**RF Testing:** RF Power Amplifiers, LRU Integration, Module Testing

**Equipment Proficiency:** Spectrum Analyzer, Signal Generator, Digital Storage Oscilloscope (DSO), Multimeter, Spike, Clamp Meter, Temperature Recorder, Load Analyzer.