

# AMARNATH S

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## SUMMARY

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Collaborative hardware engineer with expertise in embedded systems and a proven track record in coordinating software, hardware, and firmware integration. Adept at creating cooperative workgroups to achieve business goals and performance targets.

## SKILLS

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- **Programming:** C/C++, Python, HTML, CSS
- **Hardware:** Arduino UNO, 8051 Microcontroller, ESP8266/ESP32, PCB Design, IoT
- **Software:** Arduino IDE, Blynk Console, ThinkSpeak, WOKWI Software
- **Operating Systems:** Windows, Linux

## EDUCATION

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<b>K Ramakrishnan College Of Technology, Trichy</b> B.E. in Electronics and Communication Engineering CGPA: 7.48	Sep 2020 - May 2024
<b>U.D.V Higher Secondary School, Trichy</b> Higher Secondary Overall Percentage: 51.0	Jun 2019 - Mar 2020
<b>Bishop Heber Higher Secondary School, Trichy</b> Secondary Overall Percentage: 60.0	Jun 2017 - Mar 2018

## INTERNSHIP

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<b>Emsys Technologies, Coimbatore</b> <i>Sensor and Integration Intern</i>	Feb 2024 - Mar 2024
<ul style="list-style-type: none"><li>• Solved hardware and software interface issues, improving system integrity.</li><li>• Tested hardware and software in a controlled sandbox environment before production release.</li></ul>	

## PROJECTS

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- Infant Cry Detector with Automatic Smoothing using Arduino
- IoT-based Drug Detection and Attendance Tracking System
- Seis Alert using NodeMCU

## ACHIEVEMENTS

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- Developed an adjustable stand for heavy products in TNSI-2022, selected in the top 50 in Trichy & Thanjavur zone Mar 2023
- Created a project to predict renewable power based on weather information for Tech Hackathon Mar 2023 - Apr 2023

## MINI PROJECTS

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- Audio Equaliser
- Water Level Indicator
- Running LEDs
- Power Supply

## TRAINING/WORKSHOP

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| • Training on PCB Design and Manufacturing by RAACT       | Dec 2021 |
| • Training on Embedded Systems & IoT by Hitakey Infosys   | May 2022 |
| • Workshop on E-Vehicle by Madras Institute of Technology | May 2022 |

## CERTIFICATION

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| • Completed The Course On Cloud by ICT Academy | Feb 2024 |
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