

# Malatesh Basavanneppa Negalur

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## SUMMARY

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A passionate and fast-learning Electronics and Communication Engineering (ECE) student from VTU, with strong interest in Embedded System and Frontend Software Development. Seeking to contribute meaningfully through real-world problem solving and internships.

## EDUCATION

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<b>Tontadarya College of Engineering, Gadag</b> <i>B.E. in Electronic &amp; Communication Engineering (CGPA: 8.22)</i>	2022 – 2026
<b>Sri Siddaganga P U College Davangere</b> <i>Pre-University Board (76.5%)</i>	2020 – 2022
<b>Karnataka Public School Karjagi</b> <i>SSLC (78.88%)</i>	2020

## SKILLS

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**Hardware Design:** FPGA, Microcontrollers, VLSI Design  
**Frontend:** HTML, CSS  
**Programming Languages:** Verilog, C, Python,  
**Software:** Xilinx Vivado, Arduino IDE, VS Code, Cadence Virtuoso, Matlab  
**Soft Skills:** Communication, Teamwork, Problem-solving

## PROJECTS

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<b>Radar System using Arduino and Ultrasonic Sensor</b> – Built a simple radar system using Arduino, ultrasonic sensor, and servo motor to detect nearby obstacles. Visualized real-time scanning on Processing IDE.	Dec 2024
<b>Smart IoT Attendance System with Multi-Party Notification</b> – Developed an RFID-based system to automatically track student attendance and log records into a database upon scanning. – Implemented notifications to faculty, HOD, and parents via SMS, and integrated absentee pattern analysis for timely alerts.	May 2025
<b>Smart Traffic Light Controller using Verilog</b> – Designed a finite state machine (FSM) in Verilog to manage traffic flow at a T-junction, prioritizing main road traffic. Simulated the logic using hardware tools.	Ongoing

## COURSES AND PARTICIPATION CERTIFICATION

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- Completed **System Design through Verilog** certification course from NPTEL.
- Completed **C Programming** certification course from Infosys Springboard.
- Completed **VLSI SoC Design using Verilog** certification course from Maven Silicon.
- Completed **Basic of Python** certification course from Infosys Springboard.
- Completed **Synthesis, STA, Physical Design & Demo on Cadence Tools** certification course from Udemy.
- Participated in a Skill Development Program on **PCB Design & Prototyping** organized by Tontadarya College of Engineering in association with **Rlogics Technologies Bangalore**.