

# Nagaraju S M

Portfolio: <https://nag-site.netlify.app/>

GitHub: [github.com/NAG-S-RAJ](https://github.com/NAG-S-RAJ)

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## EDUCATION

- Vellore Institute of Technology** Vellore, India  
*Bachelor of Technology - Electronics and Communication; CGPA: 7.85*  
2020 - 2024
- Sarvodaya Pre University College** Tumakuru, India  
*Pre University Education - Science; Percentage: 92%*  
2018 - 2020
- Bishop Sargant School** Tumakuru, India  
*Secondary Education; Percentage: 86.6%*  
2015 - 2018

## SKILLS SUMMARY

- Programming Languages:** Python, Verilog HDL, C/C++, VHDL (Beginner), MATLAB, Java, R, 8051 ASM
- Front-end Tools:** HTML, CSS, Javascript
- Softwares:** Simulink, QCA designer, Cadence, Modelsim, Xilinx Vivado, Node-RED, Cisco Packet Tracer
- Platforms:** Linux, Windows, Arduino Uno, Arduino Nano, Raspberry Pi
- Hobbies:** Fitness enthusiast, Cycling, Trekking, Swimming
- Strengths/Tech Skills:** Excellent verbal communication, Detail and organization oriented, Circuit designing and analysis

## EXPERIENCE

- VLSI Design Training - Internshala** Certificate  
*Online* February 2023 - April 2023  
Acquired knowledge of several VLSI tools, Verilog-based HDL coding techniques, circuits, and FPGA.

## PROJECTS

- Fake Currency Detection (Image Processing, ANN, MATLAB):** (Work in progress) Proficient in developing and implementing fake currency detection systems using Image Processing and Artificial Neural Networks, with expertise in machine learning techniques. Through my work in this field, I have successfully identified counterfeit banknotes with an accuracy rate of up to 99%. — [ReportLink](#) — [GitHubLink](#)
- Text Encryption using Huffman Coding:** (Work in progress) Created from scratch a social network and a search engine based on the idea of integrating Facebook and Google. The launched website was among top 1000 websites in India during 2012-2013. Tech: PHP, MySQL, HTML, CSS, WebSockets, JavaScript, RSS, XML ( May '12) — [ReportLink](#)
- Automated Street Light System (Arduino Nano):** (November 2022) Architected and executed a comprehensive solution for automating street lights using an Arduino Nano board, motion sensors, and advanced sensors and control systems. By integrating these technologies, we were able to optimize energy efficiency and reduce carbon emissions by up to 50% compared to traditional street lighting systems. — [ReportLink](#)
- FOODZILLA:** (April 2022) Due to rapidly growing big food companies the small food chains and chefs are exploited and facing difficulty to grow, well foodzilla is a application based idea which pin points at this very specific issue and give small chefs and home cooks to come up and expand the business field. — [ReportLink](#)
- Ultrasonic Parking Sensor and Self Balancing Bike (Arduino Uno, MATLAB):** (December 2021) Experienced in designing and implementing ultrasonic parking sensors and self-balancing bikes using MATLAB, with a strong understanding of signal processing and control systems. The implemented system has an accuracy rate of up to 98% and self-balancing bikes that are capable of maintaining balance in various conditions. — [ReportLink](#)

## CERTIFICATIONS

- Performance and Reward Management - IIT Kharagpur:** NPTEL Course (November 2022) Certificate
- Advanced Excel Workshop:** JS Academy (January 2021)
- Image Processing with MATLAB:** MATLAB Certificate
- MATLAB Fundamentals:** MATLAB Certificate
- Signal Processing with MATLAB:** MATLAB Certificate

## EXTRA CURRICULAR ACTIVITIES

- Management Domain Member of VIT Animations Club (VAC)
- Member of VIT's Kannada Literary Association (KLA)
- 2nd Place - Street play (10th grade) - Concept of Social Media Addiction
- Was a member of the Drama club in school