Nithinn Manickam

✉ nithinnmanickam@gmail.com   📞 9344603344   📍 70, 4th Street ,Pn Pudhur Extension,Vadavalli

PROFILE

Highly motivated and adaptable individual with a passion for learning new technologies and a track record of quickly mastering complex concepts. Possesses strong interpersonal skills and a proven ability to collaborate effectively within teams to solve problems and achieve common goals. Committed to contributing to a dynamic and innovative organization and eager to learn from experienced professionals in the field.

EDUCATION

Bachelors in Electronics and Communication   2021 – 2025
Sri Eshwar College Of Engineering 🔗   Coimbatore
CGPA-7.5

HSC - Computer Science   2018 – 2020
Liseux Matriculation Higher Secondary School 🔗   Coimbatore
90.8%

PROFESSIONAL EXPERIENCE

Student Intern   06/2023 – 08/2023
Modelon,Inc. 🔗   Tiruchirappalli
- Worked in Product Development Team.
- Engage in Modelica-based simulation projects, utilizing industry-standard simulation software.
- Participate in Agile development processes, attending daily stand-up meetings and contributing to sprint planning sessions.
- Actively learn and explore new technologies and tools related to simulation and software development.
- Communicate project progress, challenges, and solutions to the team and stakeholders.

AWARDS

Best Team Leader
KGISL Institute Of Technology

Best Paper
Bannari Amman Institute Of Technology

Best Engineer
Bannari Amman Institute of Technology

Best Project Design
Sri Eshwar College Of Engineering

Best Speaker
Sri Eshwar College Of Engineering

PROJECTS

Heat Exchanger Visualizer
- A web application for visualizing Heat Exchangers(HX) systems of varying flowscheme.
- Implemented dynamic frontend using JavaScript for an interactive user experience.
- Integrated Modelica-based simulation for accurate and real-time representation of Heat Exchanger scenarios.

Weather and Energy Predictor CLI
- Developed a command-line interface (CLI) application for weather information retrieval and energy prediction using Python.

- Everything is intutive with a Documentation and in-built help commands.

Car Plate Number Finder
- Implemented a Car Plate Number Finder application using MATLAB.
- Implemented image segmentation and optical character recognition (OCR) to extract and recognize license plate numbers.

DCT Image Compresser
- Applied DCT to transform image data into frequency components, reducing redundancy and enabling efficient compression.
- Fine-tuned compression parameters for achieving a balance between compression ratio and image quality, showcasing MATLAB proficiency in signal processing.

SKILLS

Programming Languages
• C & C++
• Python
• Golang

Signal Processing:
• Digital Signal Processing
• Algorithm Implementation

Microcontroller and Embedded Systems:
• Embedded Programming
• Embedded Systems Development

Tools and Environments
• Git
• Matlab
• LTspice

ORGANIZATIONS

National Cadet Corps   2 TN CTC NCC
- Years of involvement: 2021- 2024
- Responsibilities: Led a squad of 15 cadets during training exercises and drills, ensuring discipline and adherence to protocols.
- Skills Developed: Developed leadership skills, teamwork, and decision-making abilities in high-pressure situations.Improved physical fitness through regular training andparticipation in outdoor activities.
- Key Contributions: Initiated a cleanliness drive within the NCC unit, organizing regular clean-up activities to maintain the cleanliness and hygiene of the premises.

LANGUAGES

- English
- Tamil
- Telugu
- Hindi

CERTIFICATES

- MATLAB Onramp
- Image Processing Onramp
- Signal Processing Onramp

DECLARATION

I solemnly declare that all the above information is correct to the best of my knowledge and belief.

Nithinn Manickam
Coimbatore