PUSHKAR KODIGEHALLI UMESH

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Summary

Master's student in Electronic Communications and Computer Engineering at the University of Nottingham, with a strong background in embedded systems, VLSI, and networking. Skilled in programming, circuit design, and problem-solving, developed through academic projects and coursework. Motivated to apply technical knowledge to innovative engineering and technology initiatives.

Education

MSc Electronic Communications and Computer Engineering, University of Nottingham, 2025 – present
Relevant modules:
- Advanced Computational Engineering
- Artificial Intelligence and Intelligent Systems
- HDL for Programmable Devices
- Scalable Cross-Platform Software Design

This degree enhances understanding of the art of electronic engineering and provides an in-depth knowledge of modern technology for electronic engineering and communication systems. Modules strengthened skills in programming, hardware description, algorithm design, and data analysis.

BSc Physics, Mathematics and Electronics, CHRIST (Deemed to be University), India, 2021-2024
Relevant modules:
- Embedded Systems and IoT Fundamentals
- Digital Signal and System Architecture
- Verilog and FPGA-Based Design
- Communication Electronics

Along with Electronics, studying Physics and Mathematics strengthened understanding of fundamental scientific principles. Modules such as Real Analysis, Discrete Mathematics, and Differential Calculus enhanced logical reasoning and quantitative abilities. In Physics, practical and theoretical work in Waves and Optics, Renewable Energy, and Particle Physics helped connect concepts to real-world applications and apply theory in laboratory experiments.

Projects

LivingSolo iOS App – Personal Project, Nov 2025 - present

Developing an iOS app to help individuals living alone manage kitchen inventory, personal expenses, and organise to-do lists.
- Designed and implemented multiple SwiftUI views for budgeting, inventory, and task management using TabView.
- Integrated SwiftData for secure local storage and persistent preferences.
- Ensured a simple and user-friendly interface, displaying totals and insights.
- Gained hands-on experience in SwiftUI, iOS app development, Xcode, and local data management.

Personal Website, GitHub – Pushkarx17, July 2025

Created a static personal website at pushkarx17.online to showcase projects, skills, and a CV.
- Deployed a multi-page portfolio website showcasing projects and a CV using HTML and CSS.
- Hosted the website using GitHub Pages and purchased a custom domain.

RFID Gate System & Mini Elevator System, CHRIST UNIVERSITY, April 2024

Created an automated gate system with Arduino and RFID to check tags and open/close the gate. Along with a mini elevator model featuring buttons, switches, and LEDs to select floors and display status.
- Programmed Arduino microcontrollers for real-time I/O operations and motor control.
- Used LCDs to display system statuses for both systems.
- Tested and debugged the prototypes to ensure they functioned reliably.
- Gained hands-on experience in electronics, automation, and embedded systems.

Additional Skills and Qualifications

- **Technical Skills:** C, C++, Python, Verilog, Embedded Systems, Networking (CCNA fundamentals), IoT , Arduino , MySQL , Xcode , HTML .
- **Software Tools:** VS Code, Xcode, Final Cut Pro, Ghidra .
- **Soft skills:** Problem-solving, Attention to detail, Team collaboration, Communication, and Time management.
- Final Cut Pro Essential Training Course – Completed in May 2025. Gained practical experience in video editing, timeline management, transitions, and export workflows.
- IT – Fundamental and Job Skilling Programme, Magic Bus India Foundation – November 2024 to February 2025. Covered basic IT fundamental tools and an introduction to Amazon Web Services (AWS).

Interests

Enthusiastic about electronics, automation, and modern technology. Enjoys learning new skills, building small projects, and exploring innovative tech trends. Enjoys travelling and hands-on learning.

References

- References available on request.