JOHN BABU K

ECE Undergrad 2025

OBJECTIVE

"I'm seeking internships to apply my electronics expertise and collaborate on impactful projects, particularly in embedded electronics . I'm also keen on exploring VLSI Design and Technology to contribute to diverse fields."

PERSONAL DETAILS

Mobile: 9497049327
johnbabukuruthukulam@gmail.com
www.johnbabuk.me
Kuruthukulam House, Palayur 680506
Thrissur, Kerala

SKILLS

- VLSI Design
- C,C++
- Assembly Language Programming 8086
- Verilog, VHDL
- MatLab
- Microcontroller Programming (Arduino, Esp32 etc.)
- Java, Python
- STM 32, Raspberry Pi
- Fusion 360, 3D printing

ACADEMIC PROFILE

B.Tech, Electronics and Communication

School of Engineering, Cochin University of Science and Technology (2021-2025)

SENIOR SECONDARY

St. Aloysius HSS, Elthuruth
Year of Completion: 2021
Percentage Score: 100%

SECONDARY

St. Francis School, Palayur
Year of Completion: 2019
Percentage Score: 94%

EXPERIENCE | PROJECTS

Active Laptop Cooler
Innovated a Laptop Cooler first of its kind for HERTZ-Hardware competition (First Prize winner).
It enhanced the cooling efficiency with fan and Peltier module & Improved laptop performance and longevity.

Humanoid Robot

Developed a fully autonomous interactive humanoid robot as a part of college tech fest. It can detect humans and other things and interact with them accordingly.Demonstrated potential for assistance and entertainment.

Easi-Reap
Designed a self-regulating plant growth enclosure.Automated provision of necessary conditions for plant growth.Revolutionized plant cultivation for ease and efficiency.

MIPS Processor
Made an implementation of the 16-bit MIPS (Microprocessor without Interlocked Pipelined Stages) ISA using verilog.

TR
Collaborated on an autonomous bot capable of cleaning beaches. It follows a predefined path (guided by gps and compass module) and collects trash along the way.

MAKER CUSAT
Co-Founded a community to teach, learn and collaborate on new technologies and electronics projects.

STEM LAB (Mentor)
Got opportunity to train school students in 3D printing technology and Electronics/Microcontroller based projects as a part of StreamHub Program (Gov.Kerala)

TECHNICAL TRAINING

- STM 32 Embedded AI Engineering Certification (Digitoad)
- CDAC Vega Processor Training (IEEE)
- StreamHub Mentorship Program (Gov. Kerala)