

Nandu Krishna Raji Mol

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Portfolio: nandu-kris7.github.io/Portfolio | LinkedIn: linkedin.com/in/nandu-krishna-r

Education

Master of Science in Computer Engineering
California State University, Northridge (Expected: 2026)

Bachelor of Technology in Electronics and Computer Engineering
A.P.J. Abdul Kalam Technological University, Kerala (2017 - 2021)

- Final Year Project: Fire Extinguishing with Sound Waves
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Experience

CSUN ARCS Research Associate
MARS Helicopter (Processor), CSUN (Jan 2025 – Present)

- Researching processor optimization for the MARS Helicopter mission.
- Working on computational efficiency, power management, and real-time processing.

Founder, Welkin Aves (2019 - 2024)

- Developed a drone prototype with an automated battery-swapping feature.
 - Secured \$12,000 in grants and partnered with Kerala Startup Mission.
 - Incubated at AICTE IDEA Lab and Cisco ThingQbator.
 - Led product development, programming, and CAD design.
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Projects

Drone Battery-Swapping Prototype

- Role: Idea originator, hardware technician, programmer, and CAD designer.
 - Designed an automated system to extend drone flight time.
 - Overcame key technical challenges in hardware and software integration.
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Skills

- Programming: Python, Embedded C, VHDL, Systemverilog
 - Software & Tools: Tensor Flow, OpenCV, Libero, SolidWorks, MATLAB, AMD Vivado, Keil MicroVision, Microsoft Office
 - Technical Skills: Teamwork, Communication, Problem-Solving, Organization
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Certifications

- IBM Data Science Specialization
 - Python Certification
 - Machine Learning
 - PowerPoint Certification
 - Excel Certification
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Leadership & Extracurriculars

Chief Creative Officer, RIET

- Institution Innovation Cell (2020 – 2021)
- Innovation and Entrepreneurship Development Cell (2019 – 2020)
- Led innovation initiatives and collaborated with faculty & students to foster research.