

Nandu Krishna Raji Mol

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Portfolio: <https://nandu-kris7.github.io/Portfolio/index.html>

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Objective

As an Electronics and Computer Engineer, I will leverage my advanced knowledge in computer engineering and hands-on experience in AI, machine learning, electric vehicle technologies, and drone technology. As a master's candidate at California State University, Northridge, I aim to contribute to innovative projects and collaborate with a dynamic team to solve complex engineering problems and drive technological advancement.

Education

Master of Science in Computer Engineering

California State University, Northridge

Expected Graduation: 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) | California State University, Northridge

Under the guidance of Dr. Xiaojun (Ashley) Geng

Jan 25 – Present

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

Founder

Welkin Aves

2019 - 2024

- Developed a drone prototype with a battery-swapping feature.
 - Raised \$12,000 for prototyping through various government grants.
 - Partnered with Kerala Startup Mission and Rajadhani Institute of Engineering and Technology.
 - Incubated at AICTE IDEA Lab and Cisco ThingQbator.
 - Gained hands-on experience in design, product development, market strategies, programming, and CAD.
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Projects

Drone Battery-Swapping Prototype

- **Overview:** Developed an innovative prototype designed to automate battery swapping for drones, aiming to extend flight time and operational efficiency.
 - **Role:** As the idea originator, I was responsible for troubleshooting and resolving technical challenges throughout the development process.
 - **Responsibilities:**
 - Served as the hardware technician, ensuring all components functioned seamlessly.
 - Acted as the programmer, developing software for the automation process.
 - Functioned as the backup CAD designer, creating and modifying designs as needed.
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Skills

- **Programming Languages:** Python, Embedded C, VHDL
 - **Software/Tools:** SolidWorks, MATLAB, AMD Vivado, Keil Microvision, Microsoft Office
 - **Technical Skills:** Teamwork, Communication, Organization, Problem Solving
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Certifications

- **IBM Data Science Specialization**
 - **Python Certification**
 - **PowerPoint Certification**
 - **3D Printing Certification**
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Extracurricular Activities

Chief Creative Officer | RIET

Institution Innovation Cell 2020 – 2021

Innovation and Entrepreneurship Development Cell 2019 – 2020

- Oversaw innovation initiatives and creative projects, fostering an environment of entrepreneurship.
- Collaborated with faculty and students to promote research and development activities.