

ANSHUL ASHISH KRISHNASWAMY

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Experience

PRAVAIG ENERGY – R&D Intern

May 2025 – August 2025

- Worked in the Battery Test Lab on validation for IPx67, TRTP, CDC, vibration testing under SAE/ISA standards.
- Designed and executed cell-level and pack-level tests for 2W/4W EVs and drone batteries (defence and civilian use).
- Co-developed *Kutiniti*, an open-source sentiment analysis platform using Mistral, in collaboration with EPITA (Lyon).
- Tuned and customized *foxBMS* firmware in embedded C for targeted military/civilian applications (under NDA).

IIT DELHI, ONNES CRYOGENICS – Research Intern

Jun 2023 – Aug 2023

- Simulated Carnot engine and steam power plant efficiencies using MATLAB.
- Calculated heat transfer in quasi-static thermodynamic cycles.
- Completed an advanced energy systems module under IIT Delhi faculty with a final hands-on project at Onnes.

IIT GUWAHATI, WISSENQUELLE – Research Intern

Oct 2022 – Dec 2022

- Performed kinematic analysis of SCARA and Gantry robots using RoboAnalyzer and C.
- Completed 3-month industry training focused on applied C for robotics under IITG collaboration.

UC BERKELEY – Project Intern, The Purpose Academy

Dec 2020 – Jun 2021

- Selected on full scholarship for UC Berkeley SCET & 1M1B tech-entrepreneurship program.
 - Helped rural communities recover from COVID via E-commerce, telemedicine, diagnostic tech, and micro-franchises.
 - Led sustainability-focused projects with Erik Solheim (ex-UNEP), Ralph Guggenheim (co-founder, Pixar), including compostable packaging and water-saving tech.
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Education

RV UNIVERSITY – B.Tech (Hons) SoCSE 2027

- Authored a preprint on quaternionic satellite communication systems with input from Shrikar Srinath (Massachusetts Institute of Technology).
- Explored novel 4D modulation techniques outperforming QAM/QPSK under AWGN conditions.

NATIONAL ACADEMY FOR LEARNING – ISC Science

- Teaching Assistant in Physics under Ms. Vineeta Manoj; led discussions on topology, fractals, Lorenz attractors, and Uncertainty principle.
 - Simulated concepts to build better intuition using Java and Manim, inspired by 3Blue1Brown and Numberphile.
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Skills

- **Programming:** C, C++, Python, Java, JavaScript, MATLAB
- **Tools & Platforms:** MongoDB, AWS, *foxBMS*, Cisco Packet Tracer
- **Certifications & Interests:** Karate (Brown-II), NAFL Football Captain, PADI Open-Water SCUBA
- **Languages:** English, Kannada, French, Hindi