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Lafayette, Louisiana

Darshan Kumar

Project Manager, Software Developer

SUMMARY

Experienced project manager and software developer with a strong engineering background, excelling in robotics, satellite communication research, and project leadership. Led a team to victory to attend the FRC Robotics World Championship and spearheaded the development of the ESG global communication system for CAPE satellites. Proficient in C++, C, Java, JavaScript, HTML, CSS, Python, Assembly, and Arduino, with skills in project management, subteam leadership, and bilingual communication.

EDUCATION

Computer Science in Computer Engineering & Mathematics Minor

Aug '23 - May '26

University of Louisiana at Lafayette — Lafayette, LA

Regularly taking 20+ hours of classes and working in student research 10-20 hours per week. On track to finish my 4 years Undergraduate program in 3 years. Normally the program takes 4-5 years to complete.

- Early Graduate, ULL Branch IEEE Member, CAPE, Honors Program
- Bilingual (English & Gujarati) & Dual Citizen (USA & India)

Masters in Computer Science - Planned Future

Aug '26 - May '27

University of Louisiana at Lafayette — Lafayette, LA

On track to finish my Masters in 1 year as a result of taking on extra classes and Masters courses during my undergraduate.

- On track to graduate with my Undergraduate Degree, Minor in Mathamatics, and Masters in Computer Science all within 4 years. Normally the program takes 6-7 years to complete.

PROFESSIONAL EXPERIENCE

Programming and Electrical Lead, Project Management

Apr '19 - Aug '23

FRC 3616 - Phenomena Robotics — Lafayette, LA

- Project Management - Attended the World Championship Under My Management and Robot Driving.
- Conducted project kick-off meetings to define project objectives and scope while managing the schedule using Trello and Slack
- Fusion 360 CAD/CAM, Object oriented programming, PID tuning, CAN Bus, Engineering Process Documentation, Basic Efficiency & Cost Analysis
- Team Driver & Robot Repair Lead
- Mentoring Students - Current

Weather Balloon Software Lead & ESG Grid Lead

Aug '23 - May '27

CAPE - Cajun Advance PicoSatellite Experiment — Lafayette, LA

- Project Manager and Lead Software Developer of ESG Grid. ESG Grid is a patented, globally deployed, satellite ground station solution.
- Developed the Universal CAPE Weather Balloon Chainable Transceivers Module
- C, JS, Arduino, Dart, Python Programming
- PCB Design Using Altium
- Writing Scopes of Work & Engineering Documentation

PERSONAL PROJECTS

- Backyard Patio CAD Drawing for HOA Approval - Approved Drawing
- Custom Secure Lock Battery Packs - 200+ units
- Custom Audio Player Devices for Religious Group - 50+ units

KEY SKILLS

C++ | C | Python | Arduino | Java | Java Script | HTML | CSS | MIPS Architecture Assembly | Project Management | System Design | GIT | Django (Python)

Hobbies & interests

Chess, Robotics, Space, Electronics, Motorcycling, Traveling, Family

REFERENCE CONTACTS

- Mrs.Ranney – Head of Robotics team 3616 – (337)501-0140 – lranney2@gmail.com
- Mrs.Lindsey – Head tech librarian at Comeaux High school – lmbroussard@lpssonline.com
- Mr. Garth Likens – Director of CAPE – (337)244-7883 – garth.likens@louisiana.edu