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Darshan Kumar
Project Manager & Software Developer

About Me

I've always worked in an engineering environment since early high school. I participated in **FRC Robotics** and led my team to the **world championship** as the **project manager**, robot driver, and lead electrician during my senior year of high school. Before that, I held positions of robot technician and **lead programmer**. In the next chapter of my life, I went to **ULL** and participated in **satellite student research** where I led the **ESG Grid** project. **ESG Grid** is a patented groundstation solution for satellites and weather balloons. Through my experience with **robotics**, **CAPE's ESG Grid**, and **IEEE**, I have learned and put into practice many practical electrical and programming skills.

Education

<u>Currently Attending</u> - **University of Louisiana at Lafayette, Louisiana**
Honors College
Major: B.S. *Computer Science with Concentration in **Computer Engineering***   August 2023-**May 2026**
*Minor: **Mathematics***   GPA: 3.75
Masters: ***Computer Engineering*** or ***Computer Science***   August 2026-**May 2027**

Experience

Project Manager, **Programming**, and **Electrical Lead** at *FRC 3616 - Phenomena Robotics, Lafayette, LA*   ***April 2019 - August 2023***

- ➤ Project Management - Attended the World Championship Under My Management, Robot Driving, and Robot Repair leadership.
- ➤ Conducted project launch 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, 3-D Printing, Engineering Process Documentation, Basic Efficiency & Cost Analysis.

Project Manager & Lead Software Developer at **CAPE** - *Cajun Advanced Picosatellite Experiment, Lafayette, LA*   ***August 2023 - <u>Present</u>***

- ➤ Project Manager and Lead Software Developer of ESG Grid. ESG Grid is a patented, globally deployed, satellite ground station solution.
- ➤ Lead Software Developer of the Fall 2023 CAPE weather balloon.
- ➤ Developed the Universal CAPE Weather Balloon Chainable Transceivers Module
- ➤ Radio Frequency, Electrical Engineering, Mechanical Engineering, and System Design Exposure

Key Skills

- ➤ **C++, C, Java Script, HTML, CSS, Java, Arduino, MIPS & AVR Architecture Assembly, Python Programming**
- ➤ **STM32 IDE, Arduino IDE, JetBrain IDE's, Fusion 360**
- ➤ **Project Management, Leadership**
- ➤ **System Design, 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

REFERENCE CONTACTS

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