

Darshan Kumar

Project Manager & Software Engineer

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Education

University of Louisiana at Lafayette | IEEE | CAPE | Honors College | GPA: 3.75/4.00

B.S. Computer Science in Computer Engineering | Senior | August 2023 - May 2026

Minor: Mathematics

Key Coursework: Computer Engineering | Digital Systems | Micro Processors | Assembly Programming | Foundations of Computer Science | Data Structures and Algorithms | Cyber Security | Computer Architecture | Linear Algebra

University of Louisiana at Lafayette | IEEE | CAPE | Outstanding Senior Students Program | Pending Admission

Dual Masters: M.S. Computer Science | August 2026 - May 2028

M.S. Computer Engineering | August 2026 - May 2028

Technical Skills

- C++, C, Java Script, HTML, CSS, Java, Arduino, MIPS & AVR Architecture Assembly, Python, LaTeX, VHDL
- PostgreSQL, Django & Django Ninja, AWS, Angular, Tailwind CSS, Docker, Linux, Bitbucket, Source Tree, GitHub, GIT
- CAN, SPI, I2C, UART
- JetBrains IDE's, VS Code IDE, Arduino IDE, STM32 IDE, Microsoft 365, Slack, Fusion 360, Altium Designer, Cura, Putty
- Leadership, Project Management, Software Engineering, System Design, Technical Documentation, Agile Development
- Soldering, MultiMeter, Oscilloscope, Power Supply, Reading Electrical Schematics/CAD Drawings, Electronics Prototyping
- Cross Disciplinary, ITAR Trained
- Bilingual: English (Advance), Gujarati (Native)

Experience

CAPE - Cajun Advanced Picosatellite Experiment, Lafayette, LA | Student Research at ULL | August 2023 - Present

- Lead Software Developer for the Fall 2023 CAPE weather balloon
- Project Manager & Lead Electronics Engineer of ESG Grid (Experimental Smart Ground-Station Grid), a patented, ITAR Compliant, globally deployed, satellite ground-station solution
- Developed the hardware and software for the variable frequency smart ground-station kit, prepared legal documentation, scope of works, block diagrams, technical presentations, and software flow-charts for supervisors and professors
- Successfully developed Ground-Station software & assembled a team of software engineers from scratch and paved the way for a successful ESG Grid

FIRST FRC 3616 - Phenomena Robotics, Lafayette, LA | extracurricular | August 2019 - August 2023

- Lead C++ Object Oriented Programmer, Robot Technician | August 2021 - May 2022
- Project Manager, Lead Electrician | May 2022 - August 2023
- Attended the World Championship during my management, robot driving, and robot repair leadership by winning the Community Impact Award noted as the most prestigious award in FIRST Robotics
- Conducted project launch meetings to define project objectives and scope while managing the agenda using Trello and Slack
- Completely wired and set the new highest standard for electrical management on our robots within 24 hours without help from anyone else, this task has taken industry mentors and students 2 weeks in the past years.

Comeaux High School Library, Lafayette, LA | volunteer | August 2021- May 2023

- Lead Technician - The LPSS district technicians were busy with other highschools so I offered my librarian to handle all of the technician tasks at my highschool. The entire year the technicians did not come knowing that I could handle all of the tasks.
- Computer Hardware, Software, and Network Troubleshooting/Repair
- Inventory Management, Bookkeeping, Increased Paperwork Efficiency

PERSONAL PROJECTS

- Backyard Patio CAD Drawing for HOA Approval - Approved Drawing
- Custom Secure Lock Battery Packs - 200+ units