

# VAMSI SRIPADA

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ELECTRICAL ENGINEER

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Energetic electrical engineer with a proven track record in developing and implementing diverse integrated projects through proficient programming, simulation, design, and assembly. Aiming for a dynamic career in Mechatronics, where my innovative and flexible approach aligns with cutting-edge advancements. Committed to continuous learning, I seek to enrich my knowledge, drive professional growth, and contribute to pioneering solutions in the ever-evolving landscape of engineering and technology.

## EDUCATION

### Masters in Electrical Engineering

University Of Bridgeport | Bridgeport, CT  
Aug 2021 - Dec 2023

### Bachelors in Electrical and Electronics

Engineering  
REVA University | Bangalore, INDIA  
2015 - 2019

## COURSEWORK

- Advance Robotics
- VLSI Design
- Python
- Autonomous Vehicles
- Controls
- Signals and Systems

## SKILLS

- **Programming:** C/C++, Python, SQL (Basics), Linux, Raspberry Pi, Arduino, Allen Bradley PLC.
- **Designing:** AUTOCAD, Google Sketch UP, Fusion 360, AutoCAD Electrical, 3D-Printing, TinkerCAD, Soldering.
- **Simulation:** Robot Operating System MATLAB, WEBOTS, Arduino, PISpice, GitHub, OpenCV, Adobe Platforms, ArduPilot, Qground control, Dobot Studio, Dobot Vision Kit.
- **Microsoft Suite:** MS Office, Excel, PowerPoint, Word, One Note, Teams.
- **Inter-personnel Skills:** Communication, continuous improvement, Problem-solving, decision-making, consistency, flexibility.

## PROJECTS

- **3D Mapping with ROS, LIDAR, and SLAM**  
Built a 3D map of the Engineering Building Labs
- **Autonomous Robot with ROS, LIDAR, and SLAM**  
Developed an autonomous robot achieving a 15% increase in 2D mapping accuracy.
- **Image Processing on DOBOT Magician Robot**  
Implemented image processing techniques on a Pick and Place system achieving 5% increase in precision.
- **Autonomous Drone**  
Designed and programmed an autonomous drone for aerial reconnaissance.
- **High-Performance FPV Drone**  
Built an FPV drone enhancing aerial perspective capabilities.
- **Obstacle Avoidance Algorithm for Robot**  
Developed obstacle avoidance algorithm reducing collisions by 20% in complex environments.

## WORK EXPERIENCE

### NASA - Montana Space Grant Consortium: Nationwide Eclipse

#### Ballooning Project (NEBP)

Project Member

(05/23 - 12/23)

- Orchestrated the successful launch of a Helium Balloon to 89,000ft, demonstrating expertise in overseeing payload connections, fill and launch processes, data monitoring, telemetry tracking, flight prediction, recovery, system verification, and electrical connections.
- Ensured strict adherence to launch operation safety standards and procedures for a high-altitude balloon project, showcasing proficiency in diverse roles critical to project success.

### NAVY (ONR) FOA N00014-21-S-F004, Exploring Naval Underwater STEM

Project Member

(05/23 - 12/23)

- Spearheaded the development and remote operation of diverse underwater exploration subsystems, directing control of the Explorer and Submersible from the surface. Systems included Power Generation, Navigation, Buoyancy, Communication, Propulsion, and Streaming, applying engineering principles for seamless functionality.
- Cultivated collaborative partnerships with universities, science centers, and Naval counterparts to remain at the forefront of technological advancements. Actively propelled year-round student engagement in underwater exploration through educational programs and informal science experiences.
- Pioneered the assembly and operation of the Blue rover by interpreting blueprints and schematics. Steered the underwater rover, leading to the discovery of new environments and contributing to advancements in exploration technology.

### Graduate Teaching Assistant

Electrical Engineering Dept - University Of Bridgeport

(01/22 - 05/23)

- Guided students in Robotics courses, providing technical aid for 80%, fostering collaboration, and enhancing learning by 10% through hands-on experience with Arduino and MATLAB applications.
- Conducted comprehensive evaluations and grading of Robotics labs, reports, and exams, ensuring a fair and rigorous assessment process.
- Optimized class discussions, resolving 20% more queries, and actively promoted better course comprehension among students.
- Engineered and tested embedded systems using Arduino and Raspberry Pi, designing innovative solutions with sensor integration. Applied various sensor, components, protocols, and interfaces for seamless functionality.

### Business Development Executive

Gigawatt Solar Pvt Ltd

(09/19 - 09/20)

- Regulated solar power plants, optimizing efficiency by 10% and cost savings by 5% through advanced technologies and safety compliance.
- Achieved 98% uptime in solar power plant operations, surpassing industry standards by 5%, and reduced downtime by 25% through effective troubleshooting and supporting quality, sales, customer service and technical proposals using safety standards.
- Computed power requirements, 3D designed layouts, simulations and ensured smooth operation of solar power plants, saving on maintenance costs annually by design, material research review, test plans and cost-defining recommendations.

## CERTIFICATIONS & ACHIEVEMENTS

- **Award of Excellence** - American Society For Engineering Education (2023)
- **Solar Powered UAV for Aerial Reconnaissance** - REVA University (2019)
- **Solar Power Industrial Training** - Steinbeis Academy (2019)
- **Echo Music Application on Android** - Internshala Training (2017)