



NAGA SRIHARSHINI CHADALAPAKA

Electrical Engineer

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Gothenburg, Sweden



ABOUT

I am a highly skilled professional with expertise in developing industry 4.0 compliant representations of ROS interface elements as standardized digital twin information models for my Master's Thesis. My proficiency in C++, API, and deep learning, along with my experience in Agile methodologies and CI/CD, enables me to create robust and efficient solutions. With a strong foundation in GitHub, HTML/CSS, and hardware-in-loop testing, I am well-equipped to tackle complex challenges in the field. I am excited about the opportunity to bring my skills and knowledge to your company.



Experience

NgC GmbH / 1tnC – Volkswagen

Magdeburg, Germany

Test Automation Engineer

04/2023 - 09/2024

- Been a part of the development of innovative hardware and software solutions, utilizing Raspberry Pi and PCAN modules for vehicle connectivity.
- Spearheaded **End2End testing, error analysis, and test case creation.**
- Developed user interfaces with **Qt Creator and C++** and integrated **Python**-based API automation with HTML coding for automating **CAN protocols.**
- Applied strong analytical skills to resolve technical challenges, consistently delivering high-quality results under pressure.
- Contributed to the success of cross-functional teams through meticulous planning and reliability.

Otto Von Guericke University

Magdeburg, Germany

Master's Thesis

11/2024 – 04/2025

- Designing a Concept for an Industry 4.0(Asset Administration Shell) compliant representation of Selected Elements of the ROS (Robot Operating System) Interface as standardized Digital Twin information models.

Tata Consultancy Services

Hyderabad, India

Assistant System Engineer

01/2021 - 09/2021

- Hands-on experience in **Python and LTE technologies**, with a notable stint working under a Qualcomm client.
- Demonstrated proficiency in crafting efficient solutions and contributing to cutting-edge developments in the technology industry.

Education

Otto Von Guericke University	Magdeburg, Germany
Master of Science in Electrical Engineering and Information Technology	10/2021 – 04/2025
Lakireddy Bali Reddy College of Engineering	India
Bachelor of Engineering in Electrical and Electronics Engineering	07/2016 - 09/2020
<ul style="list-style-type: none">• Major in Electrical Engineering, Control systems, automation, and electronics• Bachelor Thesis: "Smart Feeder Using Iot"• Specialization: MATLAB, Simulink• Tools used: Microcontroller, Arduino UNO, Hardware equipment, and Python	
European Center for Mechatronics	India
Diploma in Applied Robotic Control	09/2019 - 09/2020
<ul style="list-style-type: none">• Completed one-year diploma course certification "Applied Robotic Control" 3.0 organized by the European Center for Mechatronics in collaboration with APSSDC with an A grade• ROS, Motoman programming. Worked with ABB robots.	

Languages

English-Proficient

German-Intermediate

Hindi-Proficient

Telugu-Native

Skills

✧ Agile ✧ API ✧ C++ ✧ CAN ✧ CI/CD ✧ Deep Learning ✧ Github ✧ GUI ✧ Hardware-in-Loop ✧ HTML/CSS ✧ Internet Of Things ✧ Linux ✧ LTE ✧ MATLAB ✧ NLP ✧ PLC Programming ✧ Postman ✧ Pycharm ✧ Python ✧ Qt Creator ✧ Raspberry Pi ✧ ROS ✧ Software-in-Loop ✧ Simulink ✧ SQL ✧ Volte ✧ 5G ✧ Windows

Certifications

- **Test Automation, HIL Fundamentals** – HIL Academy.
- Python Certification – Data Camp.
- Advanced Driver Assistance Systems (**ADAS**) – Udemy.
- **System Engineering V Model ISO26262 ASPICE and Motors** - Udemy.
- **Modern CI/CD with GitLab**: Productivity and Workflow Boost – Udemy.
- Python for Everybody – Coursera.

Projects

- Conversational AI-Based Escape Room Chatbot Game Development** 2023 Magdeburg, Germany
- Using RASA Framework, OVGU
 - **Tools used:** RASA NLU, Python.
- AI-based anonymization of personal patient data** 2022 Magdeburg, Germany
- In clinical text and speech databases, OVGU
 - **Tools used:** Deep learning algorithm, Pycharm, NLP
- Automated Speed Braking System Depending on Vehicle Over Speed using Digital Controller** 2020 India
- **Tools used:** PLC Hardware kit, Delta WPLSoft - software
- Student Internship - Rashtriya Ispat Nigam Ltd** 2019 India
- PLC Programming gained knowledge on automated electrical equipment operating systems
- Solar Multiple Drives, Mini Bachelor Project** 2018 India
- A panel with lower voltage levels drives multiple devices.

Find me online

Know about me: <https://sriharshiniresume.my.canva.site/portfolio-sriharshini>.

Linkedin: <https://www.linkedin.com/in/naga-sriharshini-chadalapaka-751447222/>

Github: <https://github.com/harshini1471999>

Strengths

Creativity Teamwork Self-Motivated Communication Skills Leadership

Adaptability Honesty Transparency

Passions

Baking Crafting Drawing Travelling Listening to Music Gardening