

Sreeja Pillarisetty

EDUCATION

Masters in Electrical and Microsystem Engineering

OTH Regensburg, Germany

GPA 2.2

2023 – Present

- Coursework in Surface Engineering with focus on etching, deposition and thin-film processes
- Advanced Semiconductor Technology- Device fabrication steps, process integration, cleanroom protocols
- Advanced Optoelectronics- Semiconductor materials, optical properties of thin films
- Exposure to cleanroom workflows and process demonstrations during lab visits

Bachelors in Electronics and Communication Engineering

JNTUH University, India

GPA 2.6

2018 – 2023

- Digital and Analog Systems, VLSI Design, Microprocessors and Microcontroller

EXPERIENCE

Automotive Software Architect

2025

Intern in Body control Module

Continental Automotive, Regensburg

- Validating Configuration quality and Optimized task/resource mapping (analytic approach transferable to process optimization)

Cyber Security Engineer

Apr. 2024 – Sep 2024

Intern in Car Chassis

Continental Automotive, Regensburg

- Designed Security task planning and database maintenance (structured problem solving and documentation)
- Maintaining and updating the Argus vulnerability database
- Designing HSM Firmware update

Embedded Software developer

Aug. 2022 – Feb 2023

Internship

Shikara Embedded Solutions, India

- Gained hands on experience in HIL Testing.
- worked on different microcontrollers ARM LPC2129, LPC2128, ARM-cortex

SKILLS

Related Technical Skills

- Semiconductor Process fundamentals etching, thin-film deposition, lithography.
- Knowledge of process optimization (selectivity, uniformity, lateral etch control)
- Data analysis (Excel, Python, MATLAB) for process evaluation.
- familiar with cleanroom practices and Semiconductor workflow environment
- Materials characterization basics (surface roughness, thin-film integrity, SEM/TEM exposure from coursework)

Additional Technical Skills

- Programming (C, Python, MATLAB)
- hardware (ARM Cortex, Arduino, FPGA, PCB Design)
- Tools (Vector, Git, Visual-studio, Excel automation)

Soft Skills

- Strong communication skills
- German-completed level B1 studying B2-C1 course in Uni strong interest to improve
- English- C2
- MS-Office

PROJECTS

Etching Simulation

2025

Independent Project

- Built a simple Python/Excel model to simulate nitride etching into oxide under different process parameters
- Analyzed effects of etch rate and time on process selectivity and uniformity
- Identified Optimal process window to minimize oxide damage, reflecting real semiconductor RIE challenges

Instrument Panel Cluster

2022 – 2023

- Design and tested a CAN based automotive instrument cluster on LPC2129. Gained experience in debugging , parameter testing and system integration.

Satellite Image Enhancement

2022

- Implemented SVD and DWT in MATLAB to improve image quality. Stregthend skills in signal/data processing and algorithm validation.

Flood Detecting System

2022

- Built a monitoring system using ARM micro-controller and GSM module highlighting skills in sensor integration and system reliability.

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