# MOHAMMED SHEHZAD K SALIM

**VLSI & EMBEDDED SYSTEMS**

Katteth House, Edavoor, Kerala, India | hdtrp1033@gmail.com
+91 8921987686 | www.mdshehzadportfolio.tech

## TECHNICAL AND SOFTWARE SKILLS

- Verilog
- Efinity Software
- FPGA/Microcontroller - Altium

- Digital Design
- HTML/CSS/JavaScript
- C/C++/Java/Python

- ArcMap/ArcGIS
- CloudCompare/Microstation
- AutoCAD/Revit

## PROJECTS

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|---|---|
| FPGA CONTROLLER FOR INVERTER SYSTEMS   | EFINITY SOFTWARE | Dec 2024 |
| FPGA HARDWARE DESIGNING AND SPWM SIGNAL GENERATION | ALTIUM PCB DESIGNER | Jan 2024 |
| MINI PROJECT : FPGA HARDWARE DESIGNING & UART INTERFACING | ALTIUM PCB DESIGNER | Jan 2024 |
| HATE SPEECH AND FOUL LANGUAGE DETECTOR USING MACHINE LEARNING | JUPYTER | Jan 2024 |
| UART CONTROLLED STOPWATCH USING FPGA MODULE | ICARUS VERILOG | Dec 2023 |
| REALISATION OF DIFFERENTIAL AMPLIFIER AND 3 INPUT CMOS NAND GATE | TANNER TOOLS | Dec 2023 |

## EDUCATION

**M.Tech in VLSI and Embedded System | Mar Athanasius College of Eng.**   Aug 2023 - Present
- Completing rigorous coursework covering topics such as Advanced Digital System Design, VLSI Design Methodologies, Embedded Systems Programming, and FPGA Prototyping

**B.Tech in Electrical and Electronics Engineering | KMEA College of Eng.**   2017
- Led a team in developing a "safe car drive", integrating sensors and image capturing.
- Enrolled in specialized courses such as Power Electronics and Renewable Energy Systems, gaining in-depth knowledge of power generation, transmission, and distribution techs.

**Tenth & Twelfth | Kendriya Vidyalaya Port Trust**   2013
- Completed my Tenth level exam in 2010 with 100% mark and 12th level exam with 70% mark

## WORK EXPERIENCE

**Intern R&D Engineer | Marine Electricals (I) Ltd**   June 2024 - Present
- Marine Electricals India Ltd. is a leading provider of electrical and automation solutions for marine, commercial, and industrial sectors.
- Currently devoloping Innovative FPGA Controller Card For Marine application

**Freelance Tutor**   March 2013 - Present
- I am a freelance tutor handling students from SSLC to B.Tech. For the past 12 years I have taught SSLC, 11and 12th both Science and Commerce students and for around 3 - 5 years I have taught B.Tech Electrical and electronics students.

**GIS Engineer | Nest Digital Private Limited**   May 2019 - Sept 2022
- Skilled in conducting complex spatial analysis tasks using ArcGIS and QGIS, extracting valuable insights from spatial data.
- Major Projects - Map Polygon and APN Updation for clients at US, Netherlands and Middle East

**Design Engineer | Unitek Power Solution Private Limited**   Dec 2017 - Jan 2019
- Experienced in designing uninterruptible power supply (UPS) systems
- The major projects I coordinated was 110kV ups for Greater Noida Metro Rail project, Uttar Pradesh. I was assigned with the job of designing.