

Raj Choksi

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Linkedin <https://rajcks007.github.io/Portfolio/>



Professional career

12.2019 – 11.2021

MAINTENANCE AND DEVELOPMENT ENGINEER

Dolphy India Pvt. Ltd.

- Maintenance of electronic hardware, troubleshooting of PCB and other devices
- Development of IOT projects in the C programming language with a focus on ESP32 microcontrollers.
- Development of a product to measure the water flow rate in a water tank.
- Leading a team and developing reliable and cost-efficient hardware, reducing costs by 15-20% through component selection and supplier management.

05.2019 – 11.2019

TRAINEE ENGINEER

Heldin heinz glass Pvt. Ltd.

- Installation and maintenance of electrical systems
- Repair and diagnosis of electrical devices to reduce downtime and increase the efficiency and service life of the devices
- PLC programming and updating the existing programme of a device

Projects

10.2022 – 02.2023

Puls-Oximeter (Master- Project)

- I participated in a group project to develop a wearable medical device for continuous monitoring of SPO2 and heart rate
- Using object-oriented Java programming to create a graphical user interface that displays console output
- Use low-level communication protocols such as I2C, SPI, UART

10.2022 – 02.2023

Acceleration and temperature measurement with ATMEGA32

- The circuit was designed with accelerometer and PT-100 temperature sensor
- The circuit components were simulated and tested in LTSpice
- Data acquisition with C-Programme.

04.2018 – 03.2019

Motor protection and control with PLC, drive and HMI (Bachelor's Project)

- Motor protection and control are used to protect the motor from a fault and control its speed
- Use of many Siemens components, including TIA Portal, S7 1200 PLC, Simetic Drive and HMI.

Education

04.2022 – currently

MASTER IN EMBEDDED SYSTEMS DESIGN

at Hochschule Bremerhaven

Subject: VHDL, System on Chip(SoC), Maritimes System, Industrial System, Mechatronic, Modal basic software design, Medical System

06.2016 – 03.2019

BACHELOR IN ELECTRICAL ENGINEERING

at Gujarat Technological University, India

Subject: Power electronics, Microcontroller and Microprocessors, Analog device, Electrical machine, Machine design, Electric drive

05.2013 – 03.2016

DIPLOM IN ELECTRICAL ENGINEERING

at Gujarat Technological University, India

Subject: Electrical machine, Energy transmission, Electrical materials, Electrical measurement and measuring device

Further knowledge & skills

Languages

English - Fluent (C1)

German - Basic knowledge (A2)

Hindi & Gujarati - Mother tongue

Programming languages

Embedded-C, Java, , VHDL, Python

Software knowledge

Matlab-Simulink, SPICE, Xilinx SDK, Proteus, Eclipse, Ki-Cad, Siemens TIA

Other skills

Git-Hub, Microsoft Office (Word, Excel), Linux



Raj Choksi, Bremerhaven