MANNAVA VIVEK

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EXPERIENCE

Werkstudent - Software development
Ledlenser GmbH & Co. KG

📅 August 2022 – Present   📍 Bonn, Germany

- Designed and implemented a modular testing tool in Python to improve the efficiency and flexibility of product quality testing.

`Python` `Embedded C`

Programmer analyst trainee
Cognizant India

📅 August 2020 – June 2021   📍 Chennai, India

- Part of back-end incident management and support team dealing with discrepancies in user information processing on IBM mainframes, for a USA-based health insurance client.

`JCL` `COBOL` `MySQL`

PROJECTS

Safe Child-Robot Natural Language interaction system
Hochschule Bonn-Rhein-Sieg

- Developed an AI based NLP system with a focus on safety and fault awareness for use in child-robot interactions for Autism interventions.

`GPT` `Rasa` `ROS 2`

Autonomous planner system for Robocup @work competition
Hochschule Bonn-Rhein-Sieg

- Designed the task planner system for b-it-bots @work RoboCup team for the autonomous operation of the robot to perform the tasks in the competition using the Unified Planning Framework.

`UPF` `ROS 2` `Python`

Multi-robot management in warehouse environment
Hochschule Bonn-Rhein-Sieg

- Developed a simulated warehouse environment using Python, featuring multi-robot setup controlled by ROS2, search algorithms, and real-time inventory management implemented using Neo4j.

`Python` `ROS 2` `Neo4j`

SKILLS

- Python
- C++
- ROS
- ROS 2
- Linux
- Solidworks
- Creo Parametric
- MySQL
- Rasa

EDUCATION

Master's in Autonomous Systems
Hochschule Bonn-Rhein-Sieg

📅 2021 – Present   📍 Bonn, Germany

Bachelors's in Mechatronics
SCSVMV University

📅 2017 – 2020   📍 Kanchipuram, India

Diploma in Mechatronics
Nettur Technical Training Foundation

📅 2014 – 2017   📍 Bangalore, India

ACHIEVEMENTS

RoboCup World Champions
@work league

📅 2023   📍 Bordeaux, France

ERL Smartcity Winners
Socially Acceptable Item Delivery, Through the Door challenges

📅 2023   📍 Milton Keynes, UK

LANGUAGES

English   ●●●●●

German   ●●○○○