BHAVYA DUTTA

B.SC. MECHATRONICS ENGINEERING,
6TH SEMESTER

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EDUCATION

09/2017 - Present
B.Sc. Mechatronics Systems Engineering
Rhine Waal University of Applied Sciences - Kleve, Germany

10/2016 - 08/2017
Studienkolleg
Scientific Freshers - Bedburg Hau, Germany

04/2007 - 03/2016
Central Board of Secondary Education -XII
Tagore International School - New Delhi, India

WORK EXPERIENCE

11/2018 - 02/2019
&
09/2019 - 04/2020

Student Assistant - Brain Computing Interface
Rhine Waal University of Applied Sciences - Kleve

- Worked as a Student Assistant for Prof. Dr. Ing. Ivan Volosyak in the field of Brain Computing Interface.
- Developed the software for a tongue display unit including setting up communication using microcontrollers with i2c and UART protocols and created heatmaps of the human brain in MATLAB along with optimization of data for researchers.
- Conducted experiments and video editing for research analysis.

09/2019 - 02/2020

Student Assistant/Tutor - Programming (UML diagrams and MATLAB)
Rhine Waal University of Applied Sciences - Kleve

- Assisting Prof. Dr. Ronny Hartanto and Prof. Dr. Matthias Krauledat in Programming Labs.
- Teaching MATLAB programming as a tutor.

04/2017 - 06/2017

Engineering Intern
Theodor Brauer Haus - Kleve

- Successfully completed Pre-Internship (Vorpraktikum) in Electrical and Mechanical Englineering.
- Learned digital basics with Logo-Soft (Siemens) and software in writing and testing programs with decoder.
- Worked on electric circuits, resistor circuits and industrial boards.

PROJECTS

11/2019 - Present	**Solar Tracker**

- Designed a Solar Tracker to trace the position of sun and programmed the software to avoid collision to ground using proximity sensors.
- Managed software and electronics including components selection, coding the the ATmega microcontroller board and designing information flow chart and circuit wiring. Also, modelled the software with UML-Diagram and developed the schematics.

04/2019 - 06/2019	**Alphabot (wifi control)**

- Served as an active member of Fachschaftsrat Technologie and Bionik in the department of event management and student counselling.
- Organised events for the students of the engineering faculty and guided students in faculty and study related matters.
- Created a website with options to control the bot. Configured the Raspberry Pi 3 GPIO pins and developed the cgi scripts to control the motors. In the final step, the task was to set up the bot for wireless communication for video streaming and controlling.

COMPUTER SKILLS

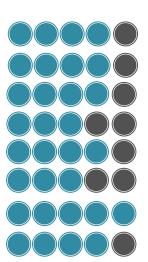| Skill	Level
C/C++	●●●●○
MATLAB	●●●●○
Java	●●●●○
Python	●●●○○
Simulink	●●●●○
ANSYS	●●●○○
MS Office	●●●●●
Camtasia	●●●●○

LANGUAGE

Language	Level
ENGLISH	▬▬▬▬▬
GERMAN	▬▬
HINDI	▬▬▬▬▬

Kleve, 30.04.2020