europass Curriculum vitae

PERSONAL INFORMATION

Priyabrat Mishra

Neoborussia Landsmannschaft, Hansastraße 6, 79104 Freiburg im Breisgau (Germany)

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Sex Male | Date of birth 25 Aug 1995 | Nationality Indian

WORK EXPERIENCE

26 Mar 2018–23 Apr 2019

Assistant System Engineer

Tata Consultancy Services Pvt Ltd, Pune (India)

Worked in a team which managed the central reconciliation and payments investigation engine for a banking client. As a team member, my responsibilities included delivering of application-level changes, process improvements and automation.

EDUCATION AND TRAINING

21 Oct 2019–Present

Master of Science in Embedded Systems Engineering

University of Freiburg, Freiburg im Bresigau (Germany)

Subjects taken till now

- Modelling and Systems Identification

-Sensors

-Microelectronics

1 Aug 2013–1 May 2017

Bachelor of Technology in Electronics and Communication Engineering

Siksha 'O' Anusandhan University, Bhubaneswar (India)

Final Grade - 8.3/10

PERSONAL SKILLS

Communication skills

- English Proficiency (Advanced)

-German Proficiency (Beginner)

Job-related skills

- Good experience with Arduino related embedded projects.
- High learning curve and adaptable to technology changes
- Eagerness to learn about Robotics
- MATLAB / Python / LaTex (Approaching level proficiency)

ADDITIONAL INFORMATION

Personal Projects

Smart Irrigation Assistance Device **(Aug – Dec 2016)**

- Conducted a study on existing flaws in common gardening and irrigational techniques which led to the acknowledgement of the demerits of non-uniform irrigation.
- Worked on a project to develop a device by implementing an electronic circuitry with main

components consisting of Soil hygrometer detection sensor controlled by Arduino with the device being password protected

Semi-Automated Quadcopter **(Jan-May 2016)**

- Implemented the capstone project for the college`s Robotics club at the team level with the objective of implementation of user-controlled Quadcopter over Radio Frequency.
- The Quadcopter system was implemented using KK2.1.5 based flight controller which had MPU6050 consisting of accelerometer + gyroscope sensors with PID control feedback system to achieve a stable flight.

Hand Gesture controlled Intelligent WheelChair **(Sep – Nov 2015)**

- A prototype level project of a semi-automated intelligent wheelchair for the purpose to assist the physically handicapped patients.
- Implementation of the project was carried out by the combination of sensory systems, mechanical components and electrical circuitry controlled by Arduino Microcontroller.

Amphibian Robotic Explorer Vehicle **(May – July 2015)**

- The main objective of the project was to make a robotic Vehicle with manoeuvring capabilities in both land and water which will be user-operated using Radio Frequency.
- The project was implemented by having 4-wheel Drive over land and wind propulsion over water. The Vehicle was LiPo powered and had an Arduino microcontroller as the controller.

Obstacle Avoider bot **(Jan – Mar 2015)**

- Developed a bot to avoid collision with any obstacle in its path of traversal. This project was an individual level capstone project.
- The project was implemented by using an ultrasonic sensor with appropriate electromechanical setup controlled by Arduino Microcontroller and was user-controlled over Bluetooth.

Line follower based Object transporter **(Sept – Nov 2014)**

- Implemented an automated project with the main objective of making a robotic vehicle which would detect and move by following a specific path or line to transport objects and goods.
- The bot was a two-wheel differential drive powered by a LiPo Battery controlled by Arduino microcontroller with Line following algorithm along with PI (Proportional Integral) feedback mechanism.