Sushant Vijay Chavan

Graduate student at Hochschule Bonn-Rhein-Sieg

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CAREER OBJECTIVE

Pursuing a master's degree in autonomous systems with 4+ years of professional experience in the software development industry. Seeking a student job in the field of semantic mapping/navigation and multi-robot systems.

EXPERIENCE

Wissenschaftliche Hilfskraft (Research Assistant)

ROPOD Project, Hochschule Bonn-Rhein-Sieg

📅 June 2019 – April 2020   📍 Sankt Augustin, Germany

Developed software for simulating a multi-robot fleet management system. Implemented continuous integration tests for evaluating the coordination and resource usage by the robot fleet.

Senior Software Engineer

Robert Bosch Engineering and Business Solutions Private Limited

📅 September 2013 – December 2017 📍 Bangalore, India

Fulfilled various roles as a C++ & 3D computer graphics developer. I was responsible for the design and development of next-gen, enhanced 3D navigation map graphics features, that are optimized to run on low-end embedded in-vehicle infotainment systems.

PROJECTS

Master Thesis - Composable Ontology-based Indoor Semantic Map

Hochschule Bonn-Rhein-Sieg

📅 December 2021 – June 2022

A novel framework to flexibly transform and merge a prior collection of heterogeneous metric-semantic indoor maps, that can be used in conjunction with a knowledge-base to plan context-dependent navigation plans that allow the robot to overcome some open-challenges in indoor robot navigation.

Comparative analysis of Experience Based Path Planning Frameworks for Multi-Robot Systems

Hochschule Bonn-Rhein-Sieg

📅 December 2018 – August 2019

- We ported three experience-based planning frameworks (Lightning, Thunder, and EGraphs) to solve multi-robot path planning problems and quantitatively compared them using a custom-written benchmarking framework.
- Our goal was to evaluate the suitability of experience-based planners in the context of the ROPOD project, where a fleet of multiple robots is assigned a task to pick up and deliver several supply-carts to different locations in a hospital environment.

EDUCATION

M.Sc. in Autonomous Systems

Hochschule Bonn-Rhein-Sieg, Germany

📅 April 2018 - August 2022 (expected)

Current German GPA 1.18

B.E. in Electronics and Communications

Visvesvaraya Technological University, India

📅 Sept 2009 - June 2013

Distinction with 82% score

ACHIEVEMENTS

✏ **Co-authored a patent filed by Robert Bosch Engineering and Business Solutions Pvt. Ltd. India (RBEI)**

🎓 **Awarded the *Deutschlandstipendium* (Germany Scholarship) 2019/20**

✳ **Awarded the *Fresher Of The Year 2013* at Robert Bosch, India**

🎓 **Awarded the *CSSS 2009 Scholarship* by the Ministry of Human Resource Development (MHRD), India**

SKILLS

C++ | Python | Git | ROS

OMPL | Classical AI | Deep Learning
Machine Learning | OpenGL ES

LANGUAGES

English ●●●●●

Hindi ●●●●●

German ●●○○○