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 an internship/master's thesis position in the field of robot navigation, multi-robot systems, and/or classical AI.

EXPERIENCE

Wissenschaftliche Hilfskraft (Research Assistant)
ROPOD Project, Hochschule Bonn-Rhein-Sieg

📅 June 2019 – Ongoing   📍 Sankt Augustin, Germany

- Development of software for the fleet management system, writing software tests for testing the coordination and resource usage by the robot fleet, conducting experiments & documenting them.

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

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.

Development of RViz plugins for RoboCup teams
b-it-bots, Hochschule Bonn-Rhein-Sieg

📅 October 2018 – January 2019

- We developed two RViz plugins called *Map Annotation Tool* and *Action Client Panel*. The map annotation tool facilitates annotating navigation maps efficiently and flexibly. The action client panel provides a GUI for selecting actions, setting their parameters, sending action goals and monitoring the progress of action execution.

EDUCATION

M.Sc. in Autonomous Systems
Hochschule Bonn-Rhein-Sieg, Germany

📅 April 2018 - August 2020 (expected)

Current German GPA 1.21

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 GMBH**
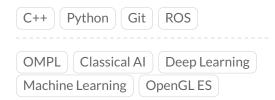- 🎓 **Awarded the *Deutschlandstipendium* (Germany Scholarship) 2019/20**
- ✴ **Awarded the *Fresher Of The Year 2013* at Robert Bosch, India**
- 🎓 **Awarded the *CSSS 2009 Scholarship* by the Ministry of Human Resource Development (MHRD), India**

SKILLS

C++   Python   Git   ROS

OMPL   Classical AI   Deep Learning   Machine Learning   OpenGL ES

LANGUAGES

English   ●●●●●

Hindi   ●●●●●

German   ●○○○○