Minh Nguyen

Curriculum Vitae

Busestraße 38 Bremen, 28213 ↓ +49 176 5791 2421 ⊠ minh@mail.minhnh.com � www.minhnh.com



Education

2022–present	PhD candidate , <i>Bielefeld University, Bonn-Rhein-Sieg University of Applied Sciences</i> Topic: <i>Model-Based Instrumentation for Robotics Applications</i>			
2015–2020	Masters of Autonomous Systems (MSc), Bonn-Rhein-Sieg University of Applied Sciences, Sankt Augustin, GPA – 1.7			
2009–2013	Bachelor of Science in Computer Engineering (BSc) , Montana State University (MSU), Bozeman, MT, USA, GPA – 1.3 University Honors, Highest Distinction Degree Senior Design Project: International RoboSub Competition by AUVSI Foundation			
	Master Thesis			
Title	Knowledge-Enabled Specification of Composable Robot Motion Control Architectures			
Supervisors	Prof. Dr. Nico Hochgeschwender & Prof. Dr. Paul Plöger & Sven Schneider			
	Masters Research and Development Project			
Title	Learning Grasp Evaluation Models Using Synthetic 3D Object-Grasp Representations			
Supervisors	Prof. Dr. Paul Plöger & Alex Mitrevski & Maximilian Schöbel			
	Experience			
2024–present	Experience Research Staff , <i>University of Bremen</i> , Bremen While continuing PhD research on automated robotic acceptance tests, I help with establishing the new Software Engineering for Cognitive Robots and Systems (SECORO) working group and contribute to the SOPRANO project.			
2024-present 2021-2023	Experience Research Staff , <i>University of Bremen</i> , Bremen While continuing PhD research on automated robotic acceptance tests, I help with establishing the new Software Engineering for Cognitive Robots and Systems (SECORO) working group and contribute to the SOPRANO project. Research Staff , <i>Hochschule Bonn-Rhein-Sieg</i> , Sankt Augustin			
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2024-present 2021-2023 2020-2021	 Experience Research Staff, University of Bremen, Bremen While continuing PhD research on automated robotic acceptance tests, I help with establishing the new Software Engineering for Cognitive Robots and Systems (SECORO) working group and contribute to the SOPRANO project. Research Staff, Hochschule Bonn-Rhein-Sieg, Sankt Augustin Together with others from Bonn-Rhein-Sieg University, we participate in the H2020 project Secure and Safe Multi-Robot Systems (SESAME), with the goal to model multi-robot scenarios in order to improve the transparency and evaluation of their executions. In this context, I investigate how knowledge about the system, e.g. hardware/software components or execution schedules, can be exploited to bridge the gap between abstract requirements from stakeholders and the concrete, executable tests carried out on the robots. Research Assistant, Hochschule Bonn-Rhein-Sieg, Sankt Augustin 			

2016–2023 b-it-bots@Home member, Hochschule Bonn-Rhein-Sieg, Sankt Augustin

- Develop the perception pipeline that bridges between Point Cloud Library (PCL) features in C++ with Machine Learning frameworks in Python.
- O Write tutorials to help new members familiarize themselves with the team's software stack, especially the perception functionalities.
- Have practical experience working on the Toyota HSR, the Care-O-bot 3 equipped a KUKA Light Weight Robot arm (LWR), and the YouBot robot platforms.

2016–2018 Software Developer Intern, Siemens AG, Bonn

- \odot Created an application to monitor, report, and download daily builds (C# .NET)
- Improved and implemented features for web reports of the project's development cycles (MVC ASP.NET)
- Began developing a new feature to learn from previous user commands to suggest next most probable ones.
- \odot Wrote tests and implement functionalities to assess product performance (C++)

Awards

- 2017 Deutschlandstipendium
- 2013 Award for Excellence, MSU Alumni Foundation and the Bozeman Area Chamber of Commerce
- 2011–2013 Robert & Julia Noble Engineering Scholarship.
- 2011–2012 John & Mary Ellen Barr Scholarship
- 2010–2011 EMPower Scholarship
- 2009–2013 Freshman Achievement Scholarship

Extracurricular activities

2016-present Study Buddy program

- 2012–2013 Vice President, IEEE Montana Student Chapter, MSU
- 2011–2013 Engineering Ambassador, College of Engineering, MSU
- 2012–2013 Treasurer, Eta Kappa Nu Electrical and Computer Engr. Honors Society, MSU

Technical Proficiency

Programming Languages	C++, Python, C#, MATLAB	Operating Systems	Debian based OS's, Arch Linux
Framework	ROS, MVC ASP.NET	Version Control	GIT, SVN
	Languages		

Vietnamese Mothertongue

English Advanced German Intermediate

Interests

- Traveling
- Classical guitar
- Robotics

Basic conversations

Proficient for colleges in the USA

- Swimming
- Martial arts
- Table tennis