Ayush Mani Nepal



PROFILE

Software and Tech enthusiast with a passion for problem-solving is seeking a new opportunity

CONTACT

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ayushnepal.github.io

 ★ Wolfsburg Region, Germany

PERSONAL INFO

BIRTH YEAR: 1990 NATIONALITY: Nepali LANGUAGES:

- German (Business fluent)
- ⋄ English (Business fluent)
- ♦ Hindi (Fluent)
- Nepali (Mother-tongue)

MAIN COMPETENCIES

- Team-spirit, Communication
- Software (Design, Architecture, Development, Operation)
- SW-Documentation (Concept, Architecture, Detailed Design)
- Agile, SOLID, Clean-Code
- ⋄ C++, Java, C#, Python
- ⋄ SW-Model, MBSE, MDD
- UML, XText, Xtend, Code-gen

TECHNICAL KNOW-HOW

- ⋄ Linux, Windows, Android
- ♦ Git, Git-lab, SVN, CI/CD
- ⋄ MVC, MVVC, Observer, MPI, etc.
- Testing, Test Automation, TDD
- Deep Learning, PyTorch, CUDA
- ⋄ Java-script, HTML, CSS
- ⋄ Database, SQL, Container
- Azure, JIRA, Confluence

HOBBIES

Music, Traveling, Hiking

PROFESSIONAL EXPERIENCES

SENIOR SOFTWARE ENGINEER FULL-STACK *IAV GmbH*

June 2023 — Now Gifhorn, Germany

- Middleware Software Development for a Radio-Tuner in C++
- Responsible for the development of station linking and listing features

R&D SCIENTISTGerman Aerospace Center (DLR)

June 2019 — May 2023 Braunschweig, Germany

- R&D of AI toolsets for their applications in space systems
- R&D of MBSE toolsets to facilitate model-driven development of the flight software for various space missions
- Contributed to Tasking Modeling Language (TML), an open-source MBSE tool for model-based software development
- Supervised students in their thesis projects and internships

STUDENT JOBGerman Aerospace Center (DLR)

Mai 2017 — April 2019 Braunschweig, Germany

Model-based system engineering for space systems

ELECTRICAL AND IT ENGINEER

April 2015 — Sep 2016 Immenstaad, Germany

Airbus Defence and Space (extern)

- Designed and developed test-automation framework to test the Off-Board Map Preparation System for fighter planes
- Automated thousands of software and system test-cases using the selfdeveloped framework

ENGINEERING CONSULTANTALTEN GmbH

Nov 2014 — March 2015 Munich, Germany

Front-end development in WPF/C# for the Building-automation

INTERNSHIPAirbus Defence and Space

Aug 2014 — Oct 2014 Immenstaad, Germany

Analyzed the feasibility of the test-automation in the given context

STUDENT JOB

Oct 2012 — Dec 2013 Ulm, Germany

Airbus Defence and Space

Application development in C#/.Net and C++

COURSES AND CERTIFICATIONS

- ♦ ISAQB CERTIFIED PROFESSIONAL FOR SOFTWARE ARCHITECTURE
- ♦ CLEAN-CODE DEVELOPER ASSOCIATE FROM CODELUTION
- ♦ SYSTEMS ENGINEERING FROM UNITY CONSULTING & INNOVATION
- ⋄ PROJECT MANAGEMENT COMPACT

STUDIES

M.Sc. Computational Sciences in Engineering (CSE)

TU Braunschweig

Braunschweig, Germany

B.E. ELECTRICAL ENGINEERING AND INFO TECH

2010 — 2014

2017 - 2019

FH Ravensburg-Weingarten

Weingarten, Germany

PUBLICATIONS

- The BECCAL Experiment Design and Control Software
- Tasking Modeling Language: A Toolset for Model-based Engineering of Data-driven Software Systems
- Modeling and Simulation of a Spacecraft Payload Hardware Using Machine Learning Techniques
- PaTaS: Quality Assurance for Model-driven Software Development