Résumé



Ram Prasanth Udhaya Baskar

Student, M.Sc. Mobile and Embedded Systems, University of Passau

- Indian citizen
- Passau, Bavaria, Germany
- Unmarried

Programming Skills

C++

С

Rust

HTML, CSS

Bash Scripting

Python

Technical skills

Software practices Engineering

Software testing

Profile Statement

I am a master's student, passionate programmer, and engineer with prior full-time work experience as a Software Engineer. Having almost finished my Master's degree, I am seeking a career as a Software Developer.

Education

M.Sc. Mobile and Embedded Systems

04/2018 - Present

University of Passau, Bavaria, Germany

Coursework: Advanced Security Engineering Lab, Internship in Systems Engineering, Sensor Data Fusion, Mathematical Control Theory, Software Engineering, Hardware-oriented security, Deep Learning, Functional Safety

B.E. Electronics and Instrumentation Engineering

08/2011 - 03/2015

Coursework: Digital Logic Circuits, Electronic Circuits, Microprocessors and Microcontrollers, Control Systems, Transducer Engineering, Object-Oriented Programming, Data Structures using C, Virtual Instrumentation, and LabVIEW laboratory course

Work experience

Anna University, Tamil Nadu, India

Junior Software Engineer BIOS x86 R&D BIOS

Congatec, Deggendorf, Germany

04/2023 - Today

We work on developing and adapting UEFI Firmware features for congatec's products based on x86 CPU architecture.

Key tasks:

- Adapting UEFI Firmware (BIOS) for congatec's intel chip based Computer On Module (COM) and Single Board Computer (SBC) products.
- Implementing congatec specific BIOS, OS and, congatec-board-controller (cBC) features into the BIOS.
- More Info: https://www.congatec.com/de/technologien/embedded-bios/

Student - Junior BIOS Engineer R&D

09/2022 - 04/2023

07/2021 - 10/2021

x86 R&D BIOS Congatec, Deggendorf, Germany

Develop, test AMI BIOS for x86 embedded computers

Student Assistant - Technical Document Writing

Chair of Dynamical Systems University of Passau, Germany

Technical document writing for the course Mathematical Control Theory offered by Chair of Dynamical Systems, University of Passau Résumé

Professional skills

Documentation skills

Communication and presentation skills

Certifications

- Intro. to Battery-management systems - Coursera
- ASPICE Vector GmbH
- Beginner Embedded C Programming - Udemy
- MATLAB Certifiation Mathworks
- Deep learning using MATLAB Mathworks

Languages

Tamil	L1
English	C1
German	B1
Czech	A1

Contact

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ram-baskar.com

Masters Student - Advanced Security Engineering Lab

Chair of Computer Engineering University of Passau, Germany

UNICARagil research project - Advanced Security Engineering Lab (12 ECTS)

- Topic of the practical project Securing-In Vehicle Traffic
- Programming Languages Embedded C, Python
- Communication protocols CAN, Ethernet
- Goal of the project Improve the existing Security of the In-Vehicle network
- Cryptographic concepts learned Elliptic Curve Cryptography, Implicit Certificates, Plain Galois fields
- Link to UNICARagil https://www.unicaragil.de/en/

Student Intern - Research Internship in Systems 00 Engineering

06/2019 - 12/2019

Chair of Dynamical Systems University of Passau, Germany

Simulation and Hardware implementation of Self-balancing robot - Team project

- Hardware Raspberry Pi 3b+, NiMH Batteries, NEMA 17 bipolar DC stepper motor, Inertial Measurement Unit (IMU) 6-axis (Gyro + Accelerometer)
- Programming Language/Environments MATLAB/Simulink and Python
- Communication protocols I2C, SPI
- Control method Linear Quadratic Regulator (LQR)
- Measurement estimation Kalman Filter (KF)
- Name of the course Research Internship in Systems Engineering (8 ECTS)

Test Engineer - Full-time

Infosys Limited, India

09/2015 - 12/2017

intosys Limited, India

Data Warehouse/Data Migration Testing

- Tasks Test Strategy, Test cases writing, Test Execution, Knowledge Transfer, Ownership of handling Test Applications
- Tools and Technology Unix Scripting, Oracle SQL, MS SQL, Ab Initio, MS Office
- Documentation skills Defect documentation, Test case writing, Documentation of rare (special) scenarios
- Test management tool HP ALM
- Communication skills Presenting test strategy, test results (retrospective), and defects discussion
- Clients Royal Bank of Scotland, Suntrust Bank

Systems Engineer Trainee - Full-time

Infosys Limited, India

05/2015 - 08/2015

Test Engineer Training phase (with Job-Entry Examination)

- Foundation level training Object-Oriented Programming in Java, Oracle SQL queries, HTML and CSS, Software Engineering
- Advanced level training Unix scripting, Oracle SQL, MS SQL (including stored procedures, triggers), Informatica (Creating DataWarehouses and Databanks), Data Warehouse Testing, HP UFT (test automation), HP ALM (test management tool), Business Intelligence (BI) using IBM Cognos
- Internally ISTQB Foundation level certified

pm.

Passau, July 18, 2022

Ram Prasanth Udhaya Baskar