Muhamad Andung Muntaha

muam@kth.se

+46764091032, +6281380260278

Stockholm, Sweden May 15, 2019

A T-profile software engineer with a demonstrated history in delivering professional projects using various technology. I am passionate in writing software to build and integrate complex systems. My skills vary from working with low-level stuff up to building distributed systems. I adapt quickly and strive to contribute more to the organization.

Work Experience

Scania Sverige

Stockholm, Sweden

Thesis Worker in Real-Time Systems

January 2019 - June 2019

- Reduced HIL real-time simulator troubleshooting time by developing logging & monitoring system.
- Improved the system development process by introducing a formal schedulability analysis method based on time demand analysis to validate the system's timing requirement.

Stockholm, Sweden **Freelance**

Embedded Linux Developer

August 2018 - December 2018

- Delivered 2 cellular network automatic testing devices to the client which were developed using Qt.

Ontel AB

Stockholm, Sweden

Embedded Software Developer

March 2018 - December 2019

- Delivered 2 types of bike sharing IoT hardware prototypes by designing and implementing the software in Arm MbedOS while maintaining the system's low-power requirement and addressing an unreliable network

KTH MIST Student Satellite Project

Stockholm, Sweden

Embedded Software Developer

March 2018 - December 2018

- Achieved a significant milestone in the end-to-end satellite communication by implementing a MISRA-C compliance radio communication API.
- Minimized the functional testing time by introducing a radio link communication simulator.
- Introduced a proof-of-concept in processing experiment data by extending the ground station software.

Schlumberger

Jakarta, Indonesia

IT Engineer & Application Developer

November 2013 - June 2017

- Booked \$5.5M soft cost savings by introducing 15 Sharepoint applications, 2 web applications, and 2 mobile applications which transformed internal business processes to reduce non-productive time, prevent risks, and
- Nominated as the winner of the transformation award by developing a web and mobile application to increase Account Receivable turnover ratio.
- Awarded as the best IT engineer based on user satisfaction feedbacks as well as excellent performance in maintaining IT services availability.

Education

KTH Royal Institute of Technology

Stockholm, Sweden

M.Sc. Embedded Systems, minor in Embedded Software

August 2017 - June 2019

- Related courses: Embedded Systems, Embedded Software, Software Reliability, Compiler and Execution Environment, Networked Systems Security, and Modern Method in Software Engineering.
- Thesis: Non-intrusive Logging and Monitoring System of A Parameterized Hardware-in-the-loop Real-Time Simulator.

10 Nopember Institute of Technology

Surabaya, Indonesia

B.Eng. Electrical Engineering, minor in Computer Engineering

August 2009 - July 2013

- Related courses: Embedded Systems, Computer Architecture, Data Communication, Computer Networks, Computer Vision, Algorithm & Data Structure, and Artificial Intelligence.
- Thesis: Self-localization of Humanoid Robot Inside Soccer Field Using Triangulation and Particle Filter Methods.

Skills

- Programming Language: C, C++, C#, Java, Python, JavaScript, Bash
- Real-Time OS: Arm MbedOS, MicroC/OS-II, FreeRTOS, RT-Linux
- Cross Platform: Qt, Xamarin
- Web Technology: .Net Core MVC, SignalR, Vue.js
- Database: MongoDB, SQLServer
- Other: Build systems, CI/CD pipelines, Docker, Git, Doxygen