

Enkhdavaa Batlkhagva



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Enkhdavaa Batlkhagva

I have five years of experience in software development. I gained in-depth knowledge in software development, testing, and review processes and scrum/agile. Currently, I am working as a software developer for Thermo Fisher Scientific.

Experience

Software Developer

Thermo Fisher Scientific

October 2021 — Present

Eindhoven, NL

- Created a development process for Model-Based-Testing.
- Created models for testing various subsystems.
- Created C# and C++ adapters to connect different systems.

.NET C#, C++

Software Designer

ICT Netherlands B.V.

Jan 2021 — Present

Eindhoven, NL

- Developed an OPC-UA API.
- Developed a 3D virtual hardware simulator for testing control software.
- Automated build and deployment (CI/CD) for the simulator.
- Feature improvements on Hololense projects.

.NET C#, Unity 3D

Software Designer Trainee

Thermo Fisher Scientific

Jan 2020 — Oct 2020

Eindhoven, NL

- Designed and developed a proof of concept for 3D virtual hardware simulator tool. The tool is for testing software using Unity3D game engine.

.NET C#, Unity 3D, Matlab

Embedded Software Engineer

Tavan Bogd Management

Mar 2018 — Sep 2018

Ulaanbaatar, MNG

- Contributed to implementing contactless payment using wireless technologies (Bluetooth and WIFI).
- Created a windows desktop application for exchanged data with Oracle DB.

.NET C#, C

Embedded Software Intern

Innovation for High Performance Microelectronics LLC

Jan 2017 — Mar 2017

Frankfurt (Oder), DE

- Implemented firmware drivers for a platform that measures a power consumption with high precision.

C

Projects

Model Based Testing (MBT)

Thermo Fisher Scientific

Oct 2021 — Present

Eindhoven, NL

- Developed state transition models for random test generation
- Created a testing workflow for development process
- Developed adapters for CI by connecting SUT with MBT tool
- Created documentations and presentations for users

Axini, .NET C#, C++, GIT, Jenkins, Shell scripting

Center Of Excellence (COE)

ICT Netherlands B.V.

Jan 2021 — Oct 2022

Eindhoven, NL

- Designed and developed a virtual 3D factory simulator to replace hardware testing dependency
- Developed HAL interface for the simulator (DT) for higher abstraction layer software
- Created CI & CD for the simulator (DT)

Unity3D, OPC-UA, .NET C#, GIT, Docker, Bamboo CI

Virtual Hardware Simulator for Transmission

Electron Microscope (EngD)

Thermo Fisher Scientific

Jan 2020 — Oct 2020

Eindhoven, NL

- Designed and implemented a 3D virtual hardware simulator for firmware and software testing so that testing is not dependent on real hardware.

Unity3D, .NET C#, GIT, Matlab, Docker

Dependency Management and Scope Control for

HMI products (EngD)

Thermo Fisher Scientific

Sep 2019 — Dec 2019

Eindhoven, NL

Goal: Codeveloped a domain-specific language and a live-code dependency checker to detect software architecture violation.

Role: Software engineer co-developing a live dependency checker

Roslyn, .NET C#

For more projects next page ...

Embedded Software Engineer

Ametros Solutions LLC

📅 Jul 2015 — Sep 2016

📍 Ulaanbaatar, MNG

- Developed firmware drivers for home automation devices (light-switch, intrusion and air quality sensors).
- Contributed developing wireless data transmission between devices.

.NET C#, C

Education

Engineering Doctorate (EngD) in Software Technology

Eindhoven University of Technology

📅 Oct 2018 — Oct 2020

📍 Eindhoven, NL

BSc Electronics Engineering Technology

Mongolian University Of Science and Technology

📅 Aug 2011 — Jul 2015

📍 Ulaanbaatar, MNG

Skills

C#	● ● ● ● ●
Agile Scrum	● ● ● ● ●
Git	● ● ● ● ●
C++	● ● ● ● ●
JavaScript	● ● ● ● ●
Python	● ● ● ● ●

Hobby

- Bouldering, Improvization, Running
- Playing guitar, sketching
- Game development

Projects

Designing Smart Landing System for Agricultural Drones (EngD)

AgroTech

📅 May 2019 — Jul 2019

📍 Eindhoven, NL

Goal: Design and implement the drone control software to save time of field analytics

Role: CI engineer and software engineer, responsible for proposing design choices and co-developing the drone control

Python, DroneKit

Face AI for Condition Monitoring (EngD)

Philips Healthcare

📅 Jan 2019 — Apr 2019

📍 Eindhoven, NL

Goal: Add new features to the existing remote consultation system using AI services (Microsoft face AI, Amazon Rekognition)

Role: Software developer/Configuration manager responsible for co-developing back-end services using C# and implementing a CI pipeline

Microsoft Face AI, Amazon rekognition, .NET C#