Enkhdavaa Batlkhagva © batlkhagva.e@gmail.com © dave.bat.io © @enkhdavaa in Enkhdavaa Batlkhagva		
I have five years of experience in software development. In the software design, digital twin, and model based testing. Moreof web and game development, and machine learning.		
Experience	Projects	
Software Designer ICT Netherlands B.V. ☐ Jan 2021 — Present Pindhoven, NL	Model Based Testing (MBT) Thermo Fisher Scientific ☐ Oct 2021 — Present © Eindhoven, NL	
 Created an infrastructure strategy for using Model-Based-Testing at Thermo Fisher Scientific. Created state transition models for testing various subsystems of the TEM microscope at Thermo Fisher Scientific. Designed and developed 3D virtual hardware simulator for testing the control software of a factory at ICT 	 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 	
Group. .NET C#, Unity 3D, C++	Center Of Excellence (COE) ICT Netherlands B.V.	
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.	 □ Jan 2021 – Oct 2022 • 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) 	
.NET C#, Unity 3D, Matlab	Unity3D, OPC-UA, .NET C#, GIT, Docker, Bamboo CI	
Embedded Software Engineer Tavan Bogd Management Mar 2018 — Sep 2018 Ulaanbaatar, MNG	Virtual Hardware Simulator for Transmission Electron Microscope (EngD) Thermo Fisher Scientific Jan 2020 — Oct 2020 Eindhoven, NL	
 Contributed to implementing contactlesss payment using wireless technologies (Bluetooth and WIFI). Created a windows desktop application for exchanged data with Oracle DB. 	 Deisgned and implemented a 3D virtual hardware simulator for firmware and software testing so that testing is not dependent on real hardware. 	
.NET C#, C	Unity3D, .NET C#, GIT, Matlab, Docker	
Embedded Software Intern Innovation for High Performance Microelectronics LLC ☐ Jan 2017 — Mar 2017 ☐ Frankfurt (Oder), DE	Dependency Management and Scope Control for HMI products (EngD) Thermo Fisher Scientific ☐ Sep 2019 — Dec 2019 ☐ Eindhoven, NL	
 Implemented firmware drivers for a platform that measures a power consumption with high precision. C Embedded Software Engineer Ametros Solutions LLC 	Goal: Codeveloped a domain-specific language and a live-code dependency checker to detect software architechture violation. Role: Software engineer co-developing a live dependency checker Roslyn, .NET C#	
 Jul 2015 − Sep 2016	Designing Smart Landing System for Agricultural Drones (EngD) AgroTech	

☐ May 2019 − Jul 2019

save time of field analytics

Goal: Design and implement the drone control software to

Role: CI engineer and software engineer, responsible for

P Eindhoven, NL

.NET C#, C

between devices.

• Contributed developing wireless data transmission

Education

Engineering Doctorate (EngD) in Software Technology

Eindhoven University of Technology

☐ Oct 2018 — Oct 2020

Q Eindhoven, NL

BSc Electronics Engineering Technology

Mongolian University Of Science and Technology

☐ Aug 2011 − Jul 2015

• Ulaanbaatar, MNG

Hobby

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

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#

Skills

C#	••••
Agile Scrum	••••
Git	••••
C++	••••
JavaScript and TypeScript	
Python	••••