

# Ing. Jelle Meeus

## Software Engineer

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Dutch C2; English C1; French B1

jellemeeus  
Rijbewijs B

## EDUCATION

Master in de industriële wetenschappen, elektronica-ICT

Katholieke Universiteit Leuven

2018

Campus De Nayer

## MASTER THESIS

Continuous unobtrusive user authentication using gait for wearable devices, utilizing machine learning algorithms

Onespan

2018

Brussel (Strombeek-Bever)

- Researched gait-based authentication method amidst growing interest in non-explicit user input.
- Enhanced an existing barebone implementation featuring an **Android** wearable app for data recording and a **Python** server app for offline processing.
- Integrated human activity and gait recognition systems, employing traditional machine learning models and a novel, fast, and accurate feature extraction technique.
- Resulted in a seamless, continuous gait-based authentication system that enables offline data capture, server-based training, and real-time evaluation on a wearable.

## EXPERIENCE

Software Engineer

Sioux Embedded Systems

November 2018 - February 2019

- Wrote essential tools to facilitate seamless transition for a customer migrating from Perforce Version Control System (VCS) to **Git**.
- Implemented existing and new features using **Python** and GitLab API, ensuring compatibility and addressing in-house developer requirements.
- Set up R&D internal website to provide an overview of projects that updates nightly.

## SOFTSKILLS

Learning Potential Team Work Agile Organization  
Flexibility MultiTasking Professionalism Scrum  
Eye for detail Responsibility Work Under Pressure

## PROJECTS

8051 microcontroller floating-point library (Assembly)  
implementation of four operations (+, -, \*, /) for two floating point numbers in Assembly without MUL/DIV

Drawing Cards (Javascript, React)  
web app to draw one or multiple cards, shuffle or flip over the deck.

Azerothcore (C++, SQL, Lua)  
open source contributor, submitting pull requests for core (C++) and database (SQL)

Video compilations (Python, Javascript, Electron, APIs, SQL)  
Create video compilations of twitch clips and upload to Youtube with ease. Compile with cli or gui interface

Auction (Lua, Vue, Typescript, C#, ASP.NET Core, MongoDB, APIs)  
Loot addon + Web app where you can create a room, invite others and bid on auctions simultaneously in real time. Export and import ingame auctions with ingame addon

Vocabulary (Python, Jupyter)  
Easy-to-read and printable vocabulary lists for commonly used English words. The lists cover spelling, meaning, example usage, and lexical spelling

## TECHNICAL SKILLS

Git +++ Python ++ Java ++  
VIM ++ VSCode ++ Linux ++  
React ++ Vue ++ Typescript ++  
C/C++ ++ CI/CD ++ C# ++  
ASP.NET Core + Lua ++ SQL ++  
Docker + MongoDB +