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## Personalia

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## Education

- University of Twente* *Feb 2018 - Aug 2020*  
*MSc Systems & Control, cum laude (Specialisation: Biomechatronics)*  
Systems and Control is a multidisciplinary field focusing on the control of all kinds of technical systems. It combines knowledge of the mathematics of Systems and Control with specific knowledge of its applications.
- University of Twente* *Sep 2013 - Feb 2018*  
*BSc Creative Technology*  
Creative Technology is a study that combines computer science, electrical engineering and industrial design to allow for the creation of a complete product. Allowing the student to be familiar with the software and hardware as well as the design of the product.
- Het Streek Bovenbuurtweg* *Sep 2007 - July 2013*  
*Technasium (Natuur & Techniek)*  
Technasium is an extension on regular atheneum bij offering the course "Onderzoek & Ontwerpen" in which every year multiple technical team projects are tackled.

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## Experience

- University of Twente* *Jan 2020 - Aug 2020*  
*Graduation Project MSc Systems & Control (Final grade: 9)*  
The goal of the project was the development and evaluation of a safe fall controller for a lower limb exoskeleton using reinforcement learning. The implemented RL algorithm was a Soft Actor-Critic which acted upon a fall simulation created in MuJoCo. A wrapper around the simulation returned the observation and reward. The reward was based upon measures for a safe fall found in literature. The RL algorithm and wrapper are created with Python and the environment with XML.
- University of Salford* *Sep 2019 - Dec 2019*  
*Associate Researcher - Internship (Final grade: 9)*  
The assignment was to create a proof of concept for a portable replacement for a motion capture system. Using a list of requirements, the GoPro video camera has been chosen as the preferred sensor. Computer vision techniques have been used to estimate the position of known patterns. The Newton-Raphson method was then used (among others) to estimate the 3D position. The proof of concept has been created in Matlab.
- Study trip ExplorAsia* *May 2017 - Oct 2018*  
*Chairman Case Coordination Committee*  
As the Case Coordination Committee we were tasked with acquiring cases at companies, dividing them among the participants and making sure both the participants and the company are satisfied in order to finance the study trip.

*University of Twente*  
*Student Assistant*  
Mathematics, Electronics and Control engineering.

*Sep 2017 - July 2018*

*P.K.v.V. Fact*  
*Vice-chairman*

*Sep 2016 - Sep 2017*

As the vice-chairman I was responsible for the improvements of the board on the topics of effectiveness and communication as well as for the communication towards the university.

*University of Twente*  
Graduation Project *BSc Creative Technology (Final grade: 9.5)*

*Feb 2017 - July 2017*

The goal of this project was to create a unique application for the Myo armband, which is capable of measuring muscle activity in and movement of the lower arm. The chosen application, being a tennis movement mapper, was based upon the unique features and usability domains of the Myo. The final product was created using rapid prototyping and was able to map and visualise the movement and power of the tennis swing during a tennis match. The product was created using C++.

*AEGEE-Enschede*  
*Full-time Internal Affairs*

*Sep 2015 - Sep 2016*

As Internal Affairs at AEGEE-Enschede, I was responsible for the members of the association. Which means I had to make sure the members joined committees, participated in activities and enjoyed coming to our association.

*Albert Heijn Bennekom*  
*General warehouse and inventory management.*

*May 2011 - May 2014*

*Other committee activities have been excluded*

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## Languages

Dutch: Mother tongue  
English: Fluent

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## Skills

*Programs*  
Matlab, Xcode, Sublime Text, Adobe Photoshop

*Programming Languages*  
Java, C++, C#, Python

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## Sports

Sailing (captain on small boats), Volleyball, Jogging, Snowboarding, Football