

Willem Melis

Permanent Address

caelfstraat 8
8400 Oostende
+32 (0476) 491952

Other information

Github: github.com/zilleplus
Personal Website: zilleplus.github.io
Email: Willem.Melis@outlook.com

OBJECTIVE

Finding a intellectually challenging job.

EDUCATION

Master of engineering, Mathematical engineering
KuLeuven, Leuven 2018
THESIS - Newton-type operator splitting methods for embedded model predictive control
<https://github.com/kul-forbes/nmpc-codegen.git>

Master of engineering Technology, Electronics and ICT - option ICT
KuLeuven, Oostende 2015
THESIS - Isolatie van kritische processen op embedded Linux Systemen
Translation thesis title: Isolation of critical processes on embedded Linux systems

Bachelor, Bachelor of electronics - ICT option ICT
KHBO, Oostende 2013
THESIS - ARTA platform capaciteitsbeheer
Translation thesis title: ARTA platform capacity management

PROFESSIONAL EXPERIENCE

Proferro, Ieper 2015
Production - mechanical department Project related to Master of engineering Technology

- Extract data from a PLC network, save it in a SQL database and visualize it. This project was realized in C#.NET and MSSQL in collaboration with Wago Louage.

Zapfi, Brugge 2013
System engineering Summer job

- Construct a PHP-MYSQL system that generates configuration files of wi-fi access points using open-WRT.

Artilium, Loppem 2013
System engineering Internship

- Collecting and visualizing information of the ARTA platform. This was realized in C#.NET and MSSQL.

Vesuvius, Oostende 2012
System engineering Summer job

- Maintenance and update of the computer software.

PROGRAMMING SKILLS

• ANSI C89	ADVANCED: thousands of lines of code written.
• C#.NET	ADVANCED: thousands of lines of code written.
• Java	GOOD: first programming language learned.
• Matlab/Python	GOOD: used in all sorts of exercises.
• MSSQL/MySQL	GOOD: fluent in the basic functionality.
• c++, Fortran, Bash, Powershell	OK: never used in big projects

LANGUAGE SKILLS

• Dutch	ADVANCED: native speaker
• English	GOOD: written and spoken
• French	LIMITED: basic words/grammar

INTERESTS

Reading, swimming, technology and applied mathematics.

Machine learning, system theory, control theory, differential equations, Stochastic Processes, Numerical Analysis, Monte Carlo Simulations

BOOKS I FIND INTERESTING

- The wizard of Menlo park - Randall Stross A story of failures .
- The black swan - Nassim Nicholas Taleb A different way of thinking about risk.
- Thinking, Fast and Slow - Daniel Kahneman The human aspect of The black swan.
- Zero to one - Peter Thiel Is there still profit, if there is fair competition?
- Liar's poker - Michael Lewis Where did the popularity of mortgage bonds come from?

ADDITIONAL SKILLS

- Windows Server 2008-2012 Setup AD domain/mail server.
- Linux server I am fascinated by Unix-like machines since i was a teenager.
- Network engineering I had very high scores on CCNA Exploration 1,2,3 and 4.
- Network and Server Hardware I enjoy keeping up with the latest enterprise hardware.
- Embedded Linux Basic programming / compiling in kernel / user space.

THINGS I CAN, BUT DON'T LIKE

- Web design I prefer more low level/detailed programming.
- GUI/forms I don't have any feeling for it, but i can program it.

CLASSES MATHEMATICAL ENGINEERING

- Case Studies: Mathematical Engineering
- Complex analysis and applications
- Computer Vision
- Cryptography and Network Security
- Deterministic and Stochastic Integration Techniques
- Medical Imaging and Analysis
- Methods and Algorithms for Advanced Process Control
- Nonlinear Systems
- Numerical Simulation of Differential Equations
- Optimization
- Parallel Computing
- Scientific Software
- Stochastic Signal and System Analysis
- Vector Machines: Methods and Applications
- System Identification and Modeling