



Tom Lankhorst

Personalia

Name Tom Jozef Wilhelmus Lankhorst
Address

Telephone
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Place and Date of Birth
Nationality
Driver's Licence

Education

University of Twente, Enschede (NL)

09-'14 - 07-'18 **MSc. Systems and Control** Graduated 8.1/10
With a focus on robotics, mechatronics and software. Thesis: An Architectural Approach to Cyber-Physical System Design.

09-'13 - 07-'14 **Premaster Embedded Systems**
Focus on real-time software and computer architecture.

09-'10 - 07-'14 **BSc. Biomedical Technology** Graduated, Cum Laude
With a focus on bio-robotics. Thesis: Low-power, low-cost 1D haptic feedback on Embedded Platforms.

University of Delft, Delft (NL)

09-'09 - 07-'10 **BSc. Industrial Design, 1th year**

St.-Ludger College, Doetinchem (NL)

09-'02 - 06-'08 **Grammar School**
With a focus on engineering and natural sciences.

Awards

04-'16 **LEO Robotics Bachelor Thesis Award**
Best-in-class bachelor thesis with a focus on applied robotics.

05-'14 **KIVI Engineering Student of the Year Award**
Awarded to highly performing, versatile students.

Work Experience

- 01-'12 - present **Software Developer, part-time**
Webhub, Enschede (NL)
Development of modern goal-oriented, testable and scalable applications for business management, administration and e-commerce (PHP, JS).
Development of control software for embedded devices (C).
- 08-'17 - 12-'17 **Researcher**
Aeroworks, University of Twente, Enschede (NL)
Integration of visual-inertial odometry in unmanned aerial vehicles and the development of software modules (ROS, C++).
- 11-'15 - 04-'16 **Embedded Software Developer, internship**
Roessingh Research and Development, Enschede (NL)
Development of embedded control-software (C++) for a wireless sensor network based on ultra-wideband localization and communication technology.

Qualifications

- Languages Native Dutch, fluent English and basic German
- Programming
- PHP, 6 yrs.**
Using Laravel and Symfony to create modern and testable (PHPUnit) modules and applications that interact with possibly distributed databases (MySQL, MariaDB, Redis), queues and services.
- MATLAB / Octave 4 yr.**
Comfortable with data analysis and visualisation, (physical) system simulations, control design and system identification.
- JavaScript 3 yr.**
Modern (ES6) JavaScript for servers (Node.JS) and front-end.
- C/C++ 2 yr.**
Experience with object-oriented and generic (template) programming. Wrote real-time embedded applications (FreeRTOS, bare-metal), software for robots (ROS) and cross-platform (CMake, GTest, Boost).
- Python 1 yr.**
- Skills Modern Software Development (DevOps)
Mechatronic System Design, Analysis and Simulation
- Hobbies Playing board-games; running; swimming; biking