Marijn Slootweg, MSc
Bridging the gap between hardware and software

Personal Details

Name	Marijn Slootweg, MSc
Residence	Nijmegen, The Netherlands
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Skills & strengths

Programming languages
C, C++, C#, Python, Java, Visual Basic, MatLAB, R, LabVIEW, TestStand (among others)

Electrical engineering
RF engineering
Practical measurements
Communication & modulation
Embedded engineering
Circuit design and PCB layout

Measurement competencies
S-Parameter, Noise Figure, Intermodulation, Harmonics, Overstress, ACLR/ACPR, Compression, Gain curve, Predistortion (among others)

Other noteworthy competencies
Windows/Linux
Algebra, Calculus, Mathematics & Statistics
Artificial Intelligence
SQL
Board member and treasurer

Past & Current Certification/Licences

National Instruments
Certified LabVIEW Associate Developer
Amateur Radio Licence
F (Full)
Certified Secure
Security Specialist & Security Aware Programmer
Cisco Certified Network Associate
Certification

Language proficiency

Dutch
Native
English
Full professional proficiency

Professional experience

October 2023 – Present
Freelance Embedded Engineer   *Talifex (Nijmegen, NL)*
Designing and developing integrated hardware and software solutions, including firmware, application software, and rapid system prototypes. Providing project management and leadership support. Proven success across diverse domains such as sensor technologies, signal generation, wireless communication, energy systems, and emerging applications.

February 2020 – September 2023
Senior RF Validation Engineer   *NXP Semiconductors (Nijmegen, NL)*
Led validation of integrated RF products by designing comprehensive test hardware and software solutions. Defined validation strategies, drove execution, and delivered detailed performance reports, ensuring product quality and reliability.

October 2017 – February 2020
Project manager & RF engineer   *PinkRF (Nijmegen, NL)*
Managing and executing RF energy integration projects. Responsibilities include co-designing and integrating RF signal generators and software architectures of high power, self-calibrating and self-validating RF systems.

October 2015 – October 2017
RF validation engineer   *Bruco Integrated Circuits (Nijmegen, NL)*
Responsibilities include setting up an electronics laboratory specializing in RF measurement, designing test set-ups and implementing hardware and software for characterization of RF designs.

October 2014 – July 2015
Embedded developer   *University of Oxford (Oxford, UK)*
Designing and developing a prototype for a wireless instrumented medical knee replacement implant to be used in the research and treatment of osteoarthritis.

Hobbies

Amateur Radio
Designed, built and validated test equipment, signal generators and amplifiers. Implemented a network analyzer and spectrum analyzer based on time domain measurements using FFT.

Embedded engineering
Designed, built and programmed controllers for RF transmitters, robotics, RC aircraft and various other control systems.

Education

2013 – 2015:	Master of Science in Telematics University of Twente
2009 – 2013:	Bachelor of ICT in Computer Science Saxion University of Applied Sciences
2010 – 2012:	Propaedeutic diploma Computer Science University of Twente
2002 – 2009:	VWO Nature and Technology Baudartius College