

Stephan Meesters



Location: Eindhoven
Nationality: Dutch

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Professional Experience

2022–today	Software engineer, 3mensio Medical Imaging 3mensio Workstation Structural Heart and Vascular
2018–2021	Software engineer R&D (Post-doctoral), Eindhoven University of Technology & Elisabeth-TweeSteden hospital NWO-funded research project: <i>Diffusion MRI Tractography with Uncertainty Propagation for the Neurosurgical Workflow</i>
2014–2018	PhD degree, Academic Center for Epileptology, Kempenhaeghe & Eindhoven University of Technology Department of Mathematics and Computer Science, Center for Analysis, Scientific computing and Applications (CASA). Title: <i>Functional and structural connectivity analysis for minimally invasive treatment of epilepsy</i> . [download: https://bit.ly/31oHScs]

Education

2011–2013	Medical Engineering (Master) at the Biomedical Image Analysis (BMIA) group, Eindhoven University of Technology, Honors: Cum laude
2012	External internship at Osaka University, Japan
2008–2011	Biomedical Engineering (Major), Verdiepende Minor (Minor), Eindhoven University of Technology
2002–2008	VWO Atheneum, Nature and Technology & Nature and Health, Sint-Janslyceum, 's-Hertogenbosch

Programming languages

Expert	C#, C++, Python, Mathematica
Experienced	Typescript, Javascript, Shell scripting, MATLAB, \LaTeX , HTML, CSS
Intermediate	Rust, Java, PHP, SQL

Frameworks / libraries

C#	.NET 8.0, NUnit, Cake
C++	CMake, Visualization Toolkit (VTK), Insight Toolkit (ITK), Qt, Boost
Typescript	Node, React, MobX, Webpack
Rust	Axum, Tokio

Development environments

OS	Developing and deploying applications on Linux (Debian, Fedora). Build and deploying Docker containers.
Web servers	Configuring and securing Apache, Nginx and NodeJS servers. Creating and using REST-API's and WebSockets.
IDE	Neovim, JetBrains Rider, Visual Studio, Visual Studio Code, XCode
Tools	Git, Subversion, GitHub CI (Jenkins), Subversion

Software development

Portfolio	https://stephanmeesters.nl/programming/
Medical imaging	Software developer (freelance work) of Depth Electrode Navigator Software (DENS) and Multi-modal Imaging for Neurological Diagnostics (MIND) developed in C++. Details at cnsprojects.nl
Mobile	Great Ape Evolution (iOS & Android, developed in C++)
Educational	Estação Gráfica (freelance work). Notably the "Big English" project for Pearson http://www.pearsonlongman.com/bigenglish/
Misc.	Marketplace author at Envato (Adobe Flash) https://themeforest.net/user/smeesters .

Interests

Programming, Medical applications, Image and signal analysis, neuroscience, electronics (designing and building PCBs, programming embedded systems), mathematics

Scientific publications

Full scientific output is detailed on the following web page:

<https://www.researchgate.net/profile/Stephan-Meesters>