

# Stephan Meesters



Location: Eindhoven  
Nationality: Dutch

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## Professional Experience

2022-today	<b>Software engineer, 3mensio Medical Imaging</b> 3mensio Workstation Structural Heart and Vascular
2018–2021	<b>Software engineer R&amp;D (Post-doctoral), Eindhoven University of Technology &amp; Elisabeth-TweeSteden hospital</b> NWO-funded research project: <i>Diffusion MRI Tractography with Uncertainty Propagation for the Neurosurgical Workflow</i>
2014–2018	<b>PhD degree, Academic Center for Epileptology, Kempenhaeghe &amp; Eindhoven University of Technology</b> 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: <a href="https://bit.ly/31oHScs">https://bit.ly/31oHScs</a> ]

## 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	<a href="https://stephanmeesters.nl/">https://stephanmeesters.nl/</a>
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 <a href="https://cnsprojects.nl">cnsprojects.nl</a>
Mobile	Great Ape Evolution (iOS & Android, developed in C++)
Educational	Estação Gráfica (freelance work). Notably the "Big English" project for Pearson <a href="http://www.pearsonlongman.com/bigenglish/">http://www.pearsonlongman.com/bigenglish/</a>
Misc.	Marketplace author at Envato (Adobe Flash) <a href="https://themeforest.net/user/smeesters">https://themeforest.net/user/smeesters</a> .

## 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>