Eirik **Marthinsen**

SOFTWARE DEVELOPER/PHYSICIST

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Father, husband, hobby skier and passionate software developer

Summary

- I have 10 years experience of developing multiphysics simulation software at Petrell in C++.

- I have done both frontend development with Qt and backend development implementing mathematical/physics models using C++.

- I have used Python with NumtPy and Matplotlib to analyze and present simulation results.

Experience

Petrell AS   *Trondheim, Norway*
SENIOR ENGINEER   *2012 - Present*
- Developing multiphysics simulation software in C++
- Responsible for testing, automation (Jenkins) and general infrastructure
- Code maintenance, modernizing, bug fixing
- Implementing license system using OAuth2 using cpprestsdk (C++)
- Performing fire-, structural integrity- and CFD simulations with the inhouse softwares Brilliant and VessFire for customers accross the world
- Developing 3D visualizing applicationsins in C++ with Qt in collaboration with Ceetron Solutions
- Data and result analysis using Python with NumPy and Matplotlib

Education

NTNU   *Trondheim, Norway*
MASTER IN TECHNICAL PHYSICS   *2006-12*
- Master thesis: *Modelling of thermal radiation for use in fire simulations* (at Petrell)
- Specializing in numerical physics
- Broad background in mathematics, physics, and data science.

Skills

Programming	C/C++ (Boost, Qt, Eigen, C++17, CMake) • Python (NumPy, Matplotlib) • LaTeX • Bash
Techical skills	Git • Docker • Linux • Jenkins • Visual Studio
Languages	Norwegian (native) • English (fluent) • German (beginner) • Persian (beginner)