

Application Form



Philipp Scholl

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Curriculum Vitae

Personal Information

Name Philipp Scholl
Address 5 Merchants Place, Stephen Street
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Telephone +353 87 1922755
eMail rayleighsjeans@gmail.com
Date of Birth 15th of June 1994 in Demmin
Nationality Germany
Family Status married
Sex Male

Languages

German first language, mother tongue
English second language, first foreign lingo, C2 certificate
7 years of school education
Russian third language, second foreign lingo
5 years of school education

Higher Education

10/2012 – 09/2015 **Bachelors Degree in Physics**
Ernst-Moritz-Arndt University, Greifswald
Bachelor of Sciences
10/2012 – 10/2017 **Master's Degree in Physics**
Ernst-Moritz-Arndt University, Greifswald
Master of Sciences
11/2017 – now **Doctor of Philosophy - Physics**
Max-Planck Institute for Plasma Physics, Greifswald
Thesis submitted, defense pending

Professional Experience

07/2021 – 04/2024 **Software Developer - C/C++**
Krauss-Maffei Wegmann Nexter Defense Systems, Munich
Advanced C/C++, embedded development, frameworks, APIs, AI, computer generated forces, dynamics & simulator logic

- 11/2017 – 05/2021 **Researcher/Scientist, Ph.D. - Plasma Fusion**
Max-Planck Institute for Plasma Physics, Greifswald
Project management, large scale data analysis, science, modelling, simulation, embedded development, international collaboration, professional documentation
- Additional Training**
- 02/2022 **Advanced C++ (for Embedded Systems)**
MicroConsult Microelectronics Consulting & Training GmbH, Munich
basics, patterns, idioms, paradigms, 'modern style' C++
- Jun. 2019 **Plan, Motivate, Achieve: Time and Self-Management**
Transferable Skills Seminar, R. Thompson
International Helmholtz Graduate School for Plasma Physics
- Jun. 2019 **Presentation Skill Workshop**
Transferable Skills Seminar, B. Hey
International Helmholtz Graduate School for Plasma Physics

Technical & Software Development Experience

- 2021-24 **Software Engineering**
Krauss-Maffei Wegmann; Software Architecture & Components, Munich
advanced C/C++; Scrum/agile development and design; extended unit, component and regression testing; embedded development; (physics) simulation and AI; CI/CD, Jira, Git/SVN; CMake & CTest/GTest; Havok Engine & Unreal Engine 5; GTC 2023 attendance
- 2017-21 **Data Acquisition Development**
Max-Planck Institute for Plasma physics, Greifswald
embedded C/C++ development for data acquisition, LabVIEW; (near) real-time software development; data center API for research purposes; Python: large scale data generation, modelling, evaluation and visualization, stereoscopic tomography and simulation; IDL & Fortran; Git; documentation and presentation of technical content
- 2016-17 **HPC C/C++ Particle-In-Cell Simulation**
Ernst-Moritz-Arndt University; Computational Sciences, Greifswald
HPC C/C++ development for particle physics simulation of low-temperature gaseous discharges; Open/MPI & Slurm; multithreading
- 2016 **Neural Networks and Large Linear Optimizations**
Ernst-Moritz-Arndt University; Advanced Numerics, Greifswald
introduction to and development of neural networks, MATLAB
- 2015 **Stereoscopic Particle Tracking and Video Processing**
Ernst-Moritz-Arndt University; Complex Plasmas, Greifswald
multi-camera system video analysis, stereoscopic 3D tracking of microscopic particles; development and construction of in-situ microelectronics; MATLAB
- 2012-15 **Computational Sciences**
Ernst-Moritz-Arndt University, Greifswald
C/C# numerical simulation (electrostatic Poisson); Linux development; Assembler programming for custom built electronics