

# Application Form

---



## Philipp Scholl

5 Merchants Place, Stephen Street  
W91 C3Y6, Dunlavin, Co. Wicklow

☎ +353 87 1922755

✉ [rayleighsjeans@gmail.com](mailto:rayleighsjeans@gmail.com)

# Curriculum Vitae

---

---

## Personal Information

Name Philipp Scholl  
Address 5 Merchants Place, Stephen Street  
W91 C3Y6, Dunlavin, Co. Wicklow, Ireland  
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; 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