Piotr Kot

Professional profile:

I am a physicist with over 8 years experience performing research at high-end universities and institutes. I have a passion for developing an understanding of novel physical phenomena and for implementing practical applications using quantum mechanics.

Lab Skills:

- Cryogenic systems down to milliKelvin temperatures
- Ultra high vacuum systems
- Low-noise electronics
- Radio frequency electronics
- Transport measurements

Computer Skills:

- Programming languages: Python, Matlab, Java, Latex
- Linux, Windows and macOS operating systems

Theoretical Knowledge:

- Condensed matter physics
- Quantum mechanics

Laboratory Work Experience

Jan. 2018 – 2022

Max Planck Institute for Solid State Research, Stuttgart Experimental Physicist

- Developed a state of the art electron spin resonance scanning tunneling microscope.
 First, and as of March 2021 the only, one capable of probing resonances up to 98 gigahertz.
- Performed experiments on: superconductors, single atom and molecular magnets, spin systems, crystal surfaces, high frequency cabling and more.
- Gained experience working in a professional laboratory setting. Specifically learnt to maintain a lab and lab book, and learnt how to present results to team members.

Jan. 2015 – April 2015 University of British Columbia, Vancouver Laboratory Assistant

• Measured band dispersions of Li deposited graphene

May 2013 – April 2014 University of British Columbia, Vancouver

Cooperative Placement Student/Thesis Student

- Was in charge of optimizing graphene growth and graphene transfer
- Performed transport measurements on polycrystalline graphene

Other Work Experience

Sept. 2015 – Dec. 2017 Max Planck Institute for Solid State Research, Stuttgart Computational Physicist

- Developed algorithms that corrected experimental data
- Implemented theoretical models to understand experimental results
- Presented research at international conferences

• Simulated electronic properties of graphene using Matlab

Education		
2018-2022	University of Stuttgart Doctor rerum naturalium in Physics	Stuttgart, Germany
2015-2017	University of Stuttgart Master of Science in Physics	Stuttgart, Germany
2011-2015	University of British Columbia Bachelor of Science in Honours Physics	Vancouver, Canada
Scholarships		
2015-2017	International Max Planck Research School Scholarship Condensed Matter Science	
2015-2017 Publications	•	
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Languages:

- Native English and Polish
- Beginner French, German and Japanese