GRZEGORZ FINKE

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Portfolio: https://gr3fin.github.io/portfolio/

Domicile:

Warsaw, Poland

SUMMARY

Highly skilled and motivated optomechanical engineer with over 12 years of combined experience in both industry and academia. A solid background in applied optics, optomechanical device design and programming, acquired at university, allows me to solve diversified challenges in my professional life. For over 7 years I have been refining my research abilities both independently and within collaborative environments, while honing interpersonal skills through regular communication with clients, subcontractors and suppliers of components used in manufactured devices.

I am experienced in leveraging a diverse array of software tools to advance research and development initiatives. To support and optimize R&D processes I have been using tools like **Excel, LabView, Python**, **MATLAB**, Autodesk Inventor, or Zemax. Most recently, I have expanded my interests to include data analysis methodologies, utilizing **Python, SQL, or Tableau** to extract valuable insights from experimental data.

TECHNICAL SKILLS

Data analysis
 Python, SQL, Tableau, Excel

Programming skills
 Python, LabVIEW, MATLAB/Octave

3D/optical design

Autodesk Inventor, Autodesk Vault, SketchUp, Zemax

Graphic design

Adobe Illustrator, CorelDraw, Inkscape

Programs supporting work

MS Office (Excel, Word, Power Point, Skype, Teams), Google Workspace, Mendeley/Elsevier, Gitlab, Zulip.

Optomechanical systems

Practical knowledge of instrumental optics and optomechanical systems design.

Holography and 3D display

Practical and theoretical knowledge of holography and 3D imaging.

Optical and measurement imaging

Many years of experience in optical imaging systems and measurement systems design.

Optical and interferometric systems

Utilization of optical interferometry in measurement processes.

ADDITIONAL SKILLS

- Fluent communication in English.
- Work in SCRUM methodology.
- Receptive to knowledge and experience sharing.
- Highly motivated for teamwork.
- Experience in international collaboration and in diversified teams.
- Critical thinking and analytical approach to research and engineering problems.
- Orientation to problem solving and work optimization.
- Inquisitive. Desire to broaden knowledge and skills development.
- Capable of conducting research work autonomously showcasing selfreliance and initiative.
- High commitment to assigned tasks.

TRAININGS and COURSES

May 2014 – Applied Data Science Program: Leveraging AI for Effective Decision-Sep 2014 Making

MiT, Great Learning

Skills and Tools Covered:

Python & Statistics, Data Analysis & Visualization, Machine Learning, Decision Trees, Time Series, Neural Networks, Recommendation System

Apr 2014 Excel on the Interview

Biblio

Skills and Tools Covered:

Data Transformation, Filtering, Sorting, XLOOKUP, Pivot Tables/Charts

Mar 2014 Data Analyst Skill Path

Udemy

Skills and Tools Covered:

Data Analysis with: Excel, SQL, Python

Mar 2014 Data Analysis Marathon with Tableau

GoIT Polska

Skills and Tools Covered:

Tableau Basics, Data Visualization, Dashboards, Filtering, Metrics, Calculation Fields, Custom Formulas.

PROFESSIONAL EXPERIENCE

Sep 2018 – Senior physicist in R&D team (laser system development specialist) Jan 2024

Fluence sp. z o. o. (https://fluence.technology/pl/)

- Femtosecond lasers design and assembly (optomechanical and water/air cooling setups).
- Preparation of Quality Assurance documentation.
- Experimental verifications and characterization of designed setups.
- Coordination and supervision of subcontractors and suppliers of mechanical, optical, optomechanical and optoelectronic elements.
- Programming supporting experimental works.
- Installation and service trips.

Apr 2016 – Optomechatronic specialist in R&D team Sep 2018

Astri Polska sp. z o.o.

- Optomechanical setups design and assembly.
- Preparation of technical documentation.
- Coordination and supervision of subcontractors and suppliers of mechanical, optical, optomechanical and optoelectronic elements.
- Collaboration with foreign partners.
- Experimental works with designed setups.
- Work in ISO 8 5 cleanroom environments.

[&]quot;Wyrażam zgodę na przetwarzanie moich danych osobowych dla potrzeb niezbędnych dla realizacji procesu rekrutacji (zgodnie z Ustawą z dn. 29.08.97 r. o ochronie danych osobowych, Dz. Ust Nr 133 poz. 883)."

ACADEMIC EXPERIENCE

- Design, analysis, and realization of digital holograms capture/reconstruction concepts.
- Experimental work with elements of programming and 3D designs.
- Preparation of scientific publications in Polish and English languages.
- Preparation and presentation of experimental work results at international conferences.
- Collaboration with foreign partners.
- Additional tasks realization in terms of ACT PHAST and inner WUT grants.
- Planning and realization of equipment purchase in public procurement system.

Jan 2008 – Dec 2013

International R&D team member

Warsaw University of Technology, Institute of Micromechanics and Photonics

- EU Project, 7FP "REAL 3D: "Digital holography for 3D and 4D real-world objects' capture, processing and display".
- National Science Centre R&D grant "Wide viewing angle multi SLM holographic display".
- National Science Centre project: "HoloTrue3D: Multi wavefronts holographic imaging and measurements"
- Realization of contracted research projects in "Giga Korea Project".

EDUCATION

Sep 2009 – Jun 2017

PhD studies conducted in English

Warsaw University of Technology, Institute of Micromechanics and Photonics Specialization: Photonics engineering

PhD thesis: "Development and investigation of wide-angle holographic display based on multi spatial light modulators"

Sep 2003 -

Master of Sicience in Engineering

Dec 2008

Warsaw University of Technology, Institute of Micromechanics and Photonics Specialization: Photonics engineering