## **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 Systems

#### 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.

<sup>&</sup>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