

# GRZEGORZ FINKE

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Domicile:  
Warsaw, Poland

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## 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, 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.

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## TECHNICAL SKILLS

Hands – on

- **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.

Software

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- **Programming skills**  
Labview, Matlab/Octave, Python
  - **Data analysis**  
Python, SQL, Tableau, Excel
  - **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.

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## 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 self-reliance and initiative.
- High commitment to assigned tasks.

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## PROFESSIONAL EXPERIENCE

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

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## 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.
- Dec 2013 – Apr 2016     **International R&D team member**  
Warsaw University of Technology, Institute of Micromechanics and Photonics  
National Science Centre project: „*HoloTrue3D: Multi wavefronts holographic imaging and measurements*”  
Realization of contracted research projects in „*Giga Korea Project*”.
- Dec 2011 – Dec 2013     **Research project manager**  
Warsaw University of Technology, Institute of Micromechanics and Photonics  
National Science Centre R&D grant „*Wide viewing angle multi SLM holographic display*”.
- Jan 2008 – Jun 2011     **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*”.
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## 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*”.

Supervisor: prof. Małgorzata Kujawińska

Sep 2003 – Dec 2008      **Master of Science in Engineering**

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

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