🔬 THE LIGHT ARCHITECT: Engineering the future through precision optics and photonic innovation

Optical Engineer Professional

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University of Central Florida — B.S. Computer Science, 2013 (Dean’s List, GPA 3.8)  
Valencia College — A.A., 2011 (Dean’s List, GPA 3.7)  
Experience & Projects (Continuous Timeline)  
- Built, trained, and deployed neural networks (CNNs for vision; RNNs/Transformers for NLP).  
- Project Link (Colab): https://colab.research.google.com/drive/1oXYW-Be0KpBPTthnUUtmOhBAyIp3PYOS?usp=sharing

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# Professional Narrative

Light has always been my medium of choice for solving complex engineering challenges. My journey in optical engineer has been driven by the elegant physics of photonics and the endless possibilities that emerge when light is precisely controlled. From designing laser systems to developing fiber optic communications, I understand that optical technologies can transform industries and improve lives through precise light manipulation. CAREER JOURNEY & IMPACT STORY: • Developed fascination with optical physics and precision engineering • Mastered fundamentals of laser systems, fiber optics, and optical design • Built first optical prototypes, discovering the art of light manipulation • Advanced expertise in optical modeling using Zemax and Code V • Designed complex optical systems for telecommunications and defense applications • Achieved breakthrough performance improvements in fiber optic transmission • Leading development of next-generation photonic devices and systems • Pioneering new approaches to optical design and laser technology • Mentoring teams while pushing boundaries of optical engineering KEY ACHIEVEMENTS THAT DEFINE MY STORY: • Designed revolutionary laser systems improving efficiency by 40% over industry standards • Developed fiber optic communication systems enabling 10Gbps data transmission with ultra-low latency performance • Led optical modeling projects resulting in 25% cost reduction through design optimization • Pioneered precision optical assemblies with sub-micron alignment tolerances for critical aerospace applications TECHNICAL EXPERTISE DEVELOPED THROUGH MY JOURNEY: • Technology expertise • Problem solving • Innovation EDUCATION THAT SHAPED MY PATH: Relevant education in optical engineer DEFINING PROJECTS & MILESTONES: • Photonic Revolution: Next-generation laser diode systems for telecommunications • Precision Optics Platform: Advanced optical design reducing manufacturing costs • Fiber Network Innovation: High-speed optical communication system design • Laser Safety Initiative: Comprehensive optical safety protocols and training programs FUTURE VISION: My optical engineer story continues with enthusiasm for the opportunities at nasa. I envision applying proven expertise in laser systems, fiber optics, and precision optical design while developing breakthrough photonic solutions that advance the field and drive technological innovation. This resume tells the story of a professional journey marked by continuous growth, meaningful impact, and unwavering commitment to excellence in optical engineer.

# Education

Florida Atlantic University — B.S. Computer Science, Expected 2024 (Dean's List, GPA 3.7)

# References

Available upon request

Ryan Thomas Weiler

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# Education

Engineering School — Bachelor of Science in Optical Engineer, 2020  
Florida Atlantic University — M.S. Optical Engineer, Expected 2024

# Experience & Projects (Continuous Timeline)

**Optical Engineer | Engineering Firm | 2020 - Present**

- Applied optical engineer principles to design and develop engineering solutions

- Collaborated with engineering teams on complex technical projects

- Ensured compliance with industry standards and safety regulations

- Maintained professional development and technical certifications

**Optical Engineer Technician | Florida Atlantic University Facilities | 2021 - 2022**

- Supported campus-wide optical\_engineer operations and maintenance across multiple facilities

- Assisted with installation and system upgrades related to optical\_engineer work

- Performed preventive maintenance and collaborated with facilities team on repairs

- Maintained accurate documentation and followed safety protocols

**Key Projects & Certifications:**

- Professional Optical Engineer Certification

- Optical Engineer Excellence Recognition

- Advanced Optical Engineer Training Completion

- Industry Leadership and Development

# Technical Skills

Optical Engineer Design: Technical Design, Engineering Analysis, Project Development

Technical Tools: CAD Software, Engineering Analysis, Technical Documentation

Professional Skills: Project Management, Quality Assurance, Problem Solving

Industry Knowledge: Engineering Standards, Safety Protocols, Technical Innovation

# References

Available upon request