

Rowan Duran

Optics Engineering Intern

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SUMMARY

Aspiring optics engineer with a strong foundation in optical networking solutions. Current Electrical Engineering student with hands-on experience in developing prototypes and conducting thorough research projects. Eager to join Innovative Solutions Corp, contributing to team-oriented design and enhancement of advanced optical systems. Recognized for strong analytical skills and technical proficiency in simulation tools. Committed to continuous learning in cutting-edge technologies while fostering a positive team environment that drives innovation. Exemplify collaborative efforts on various university-led projects, demonstrating effective communication and dedication to product improvement.

EDUCATION

Bachelor of Science in Electrical Engineering

University of California, San Francisco 🎓 GPA: 3.8 📅 2026 📍 San Francisco, CA

Coursework: *Optical Systems Design, Data Analysis, Networking Principles, Advanced Optics*

TECHNICAL SKILLS

- **Optical Design Tools:** Zemax, LightTools, MATLAB
- **Programming Languages:** Python, C++, Java
- **Data Analysis Software:** MATLAB, Excel, R
- **Simulation Techniques:** Finite Element Method, Wave Optics, Ray Tracing
- **Version Control:** Git, SVN, Mercurial
- **Communication Tools:** Microsoft Teams, Slack, Zoom
- **Testing Equipment:** Oscilloscope, Spectrum Analyzer, Optical Power Meter
- **Prototyping Technologies:** 3D Printing, Laser Cutting, CNC Machining
- **Networking Protocols:** TCP/IP, UDP, Ethernet
- **Research Methodologies:** Qualitative Analysis, Quantitative Analysis, Case Studies

SKILLS

- Optical Engineering
- System Design
- Data Analysis
- Team Collaboration
- Research
- Prototyping
- Technical Troubleshooting
- Simulation Software
- Product Development
- Project Management
- Continuous Learning
- Software Tools
- Applying Standards
- User Testing
- Communication Skills
- Problem-Solving

EXPERIENCE

Optics Engineering Intern

University Research Lab 📅 January 2026 - Present 📍 San Francisco, CA

Intern engaged in significant project development within optical engineering. Support the design, testing, and optimization of optical networking products and contribute innovative ideas for system improvements.

- Assisted in developing optical communication prototypes, enhancing data transmission efficacy through practical experimentation.
- Collaborated with engineers on experimental optical networking systems, achieving reliability and quality objectives effectively.
- Conducted extensive research relevant to current industry trends in optics, successfully informing ongoing product development initiatives.
- Utilized simulation software, leading performance analysis and identifying optimization opportunities for multiple systems.
- Presented findings and updates to faculty and peers, enriching collaborative environments across research teams.
- Engaged actively in troubleshooting technical issues, contributing significantly to improving overall system functionality.

Capstone Project Developer

Academic Project 📅 September 2025 - December 2025 📍 San Francisco, CA

Led a comprehensive group project focused on crafting an innovative optical sensor designed for environmental monitoring applications. Coordinated all stages from initial concept through completion.

- Spearheaded a dedicated team of peers to design an optical sensor solution, driving development through collaboration and teamwork.
- Created a prototype using advanced optical technologies, resulting in marked improvements in data accuracy critical for project success.
- Executed rigorous testing protocols, ensuring compliance with pertinent industry standards pertaining to optical engineering.
- Analyzed collected project data systematically to ascertain performance levels and suggest actionable insights for future work.
- Documented processes thoroughly, producing a detailed report outlining methodologies and outcomes achieved.

- Worked closely with faculty advisers, refining project objectives and harnessing their feedback for final deliverables.

Student Team Member

Hackathon Project 📅 March 2025 📍 San Francisco, CA

Contributed creative energy during a 48-hour hackathon aimed at sustainable optical solutions. Developed practical application prototypes capable of optimizing light usage in urban areas.

- Participated actively in a fast-paced multi-disciplinary team, leveraging diverse skill sets toward project success.
- Designed a vision-based application utilizing optical sensors, showcasing innovative thinking around urban sustainability.
- Demonstrated the completed project to judges, earning accolades for originality and strategic execution.
- Conducted user testing sessions to gather valuable feedback for iterative design enhancements post-presentation.
- Facilitated lively discussions relating to future development paths of the presented solution after the event's conclusion.

LEADERSHIP & AWARDS

- Dean's List, University of California, San Francisco, 2025
- Best Project Award, University Engineering Challenge, 2025

CERTIFICATIONS

- Introduction to Optical Engineering 📅 2026
- Data Analytics 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Engineering Student Association, 2025 – Present
- Volunteer, Community Science Outreach Program, 2025 – Present

LANGUAGES

- English (Native) • Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST