



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

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

STRENGTHS

👥 Collaboration

Fostered partnerships resulting in innovative engineering approaches. Valued team opinions and built together for shared achievements.

💡 Analytical Skills

Utilized strong problem-solving skills, leading vital research impacting engineering projects. Insights shaped development strategies significantly.

🔧 Technical Proficiency

Adapted quickly to different tools and software, reinforcing capabilities. Effectively integrated technology in real-world projects as a contributor.

💡 Creativity

Crafted inventive solutions during team challenges, bringing energetic perspectives. Positive responses testified to driven creativity in projects.

🛡️ Resilience

Faced various challenges across projects with determination. Persistent attitude was often recognized by team members and mentors alike.

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

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



● Optics Engineering Intern at University Research Lab (6 Months)

● Capstone Project Developer at Academic Project (3 Months)

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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST