

# ROWAN DURAN

## OPTICS ENGINEERING INTERN

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### 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

### 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

## 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)

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

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST