

# Rowan Duran

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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

2026

University of California, San Francisco GPA: 3.8

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

January 2026 - Present

University Research Lab

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

September 2025 - December 2025

Academic Project

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

March 2025

### Hackathon Project

*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

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

## CERTIFICATIONS

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

## PROFESSIONAL AFFILIATIONS

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

## LANGUAGES

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- English (Native) • Spanish (Intermediate)

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST