



Emmanuel Gallegos

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SUMMARY

Accomplished physicist with over ten years in R&D, specializing in atomic, molecular, and optical (AMO) physics. Proven gas acquisition experience through DOD-funded programs. Exceptional ability to lead innovative projects that advance aerospace technologies. Capable of collaborating within agile teams to deliver impactful research outcomes. Enhanced collaboration with internal and external experts improved solutions for both commercial and defense sectors. A strong publishing record highlights scientific contributions and fosters transparent communication with diverse stakeholders. Engaging presentations bring research findings to life, showcasing technical insights effectively across audiences.

EXPERIENCE

Senior Research Scientist

January 2022 - Present

Quantum Innovations Inc.

San Jose, CA

Handled advanced projects focusing on atomic sensor technologies, impacting product offerings across the commercial and defense domains. Key exposure to managing interdisciplinary teams fostering effective project delivery. Leveraged deep expertise in quantum sensing to enhance overall team innovation.

- Spearheaded development initiatives around atomic sensors that significantly enhanced products for defense applications.
- Collaborated with scientists to establish clear project expectations and execute solutions aligned with market trends.
- Steered multi-million dollar proposals gaining DOD-sponsored funding; bolstered research and development capacity.
- Authored impactful articles documenting quantum sensing advancements, positively influencing academic reputation and visibility.
- Championed analytical methods applied in experimentation improving sensor technologies for performance precision.
- Delivered complex presentations at conferences translating scientific concepts into accessible information for mixed audiences.

Research Physicist

May 2016 - December 2021

Optical Technologies Ltd.

Los Angeles, CA

Engineered optical sensors aimed at advancing aerospace technology projects while maximizing industry relevance. Effective leader directing junior researchers and enhancing their developmental diversity.

- Developed sophisticated optical sensor capabilities contributing directly to new technological projects within aerospace.
- Engaged closely with partners solidifying joint research agendas responsive to evolving market requirements.
- Mentored a capable team of junior researchers providing guidance on experimental data analysis methodologies.
- Drove major research proposals resulting in successful execution of DOD-funded projects yielding critical innovations.
- Constructed self-driven reports enabling clients to understand research progress; significant stakeholder influence.
- Integrated complex optical systems promptly aiding in developing cross-disciplinary cooperative initiatives.

Postdoctoral Researcher

August 2014 - April 2016

Photonics Research Group

Berkeley, CA

Conducted impactful studies on photonic devices, specifically enhancing aviation industry's sensor efficacy. Fostered collaborative networks between academia and industry ensuring smooth transitions from theoretical research into practical applications.

- Designed and executed experiments aimed at refining photonics systems for less adverse environmental impacts.
- Worked side-by-side with key industry professionals translating foundational research into actionable findings.
- Devised testing setups that energized methodologies for rigorous system evaluations generating reliable results.
- Published high-dispensation findings broadening opportunities for future funding participations in various partnerships.
- Guided graduate students nurturing their investigatory curiosity and essential research aptitudes.
- Represented research initiatives at global symposiums elevating program recognition among international peers.

LEADERSHIP & AWARDS

- Outstanding Contributions to Quantum Research 2023
- Best Applied Physics Paper Award 2022

EDUCATION

Ph.D. in Physics

2014

University of California, Berkeley GPA: 3.9

Berkeley, CA

Coursework: Quantum Mechanics, Electromagnetic Theory, Statistical Mechanics, Solid State Physics

CERTIFICATIONS

- Certified Quantum Technologies Specialist 📅 2022
- Advanced Project Management Certification 📅 2021

TECHNICAL SKILLS

- **Quantum Physics:** Atomic Clocks, Photonics, RF Sensors
- **Research & Development:** Experimental Design, Data Acquisition, Technical Reporting
- **Project Management Tools:** Trello, Asana, JIRA
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Analysis Software:** MATLAB, Python, LabVIEW
- **Statistical Analysis Tools:** SPSS, R, Minitab
- **Measurement Devices:** Oscilloscope, Spectrum Analyzer, Multimeter
- **Laser Technology:** Ti:Sapphire Lasers, Fiber Lasers, Diode Lasers
- **Publication Methods:** Journals, Conferences, Review Boards
- **Networking Platforms:** ResearchGate, LinkedIn, Academia.edu

SKILLS

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|--------------------------------|--------------------------|---------------------------|-----------------------------------|
| • Quantum Sensing Technologies | • Technical Writing | • Statistical Analysis | • Optical Sensors |
| • R&D Leadership | • Collaborative Teamwork | • Device Testing | • Interdisciplinary Collaboration |
| • Program Management | • Photonics Engineering | • Proposal Development | • Critical Thinking |
| • Complex Problem Solving | • Experiments Design | • Research Communications | • Innovation Management |

PROFESSIONAL AFFILIATIONS

- Member, American Physical Society since 2015
- Board Member, Quantum Technologies Association since 2021

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST