



# JACKSON TURNER

## Optical Engineer

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### PROFESSIONAL SUMMARY

Optical Engineer with 7 years of comprehensive experience in designing and optimizing advanced optical systems. Expertise in lens design, optical simulations, and system integration, driving innovation in imaging technologies. Dedicated to delivering high-quality optical solutions and enhancing product performance through collaboration and technical excellence.

### WORK EXPERIENCE

#### Optical Engineer

Feb / 2021-Ongoing

Seaside Innovations

Santa Monica, CA

1. Led the development of design specifications and prototypes for advanced optical systems, ensuring calibration and performance met rigorous standards.
2. Executed comprehensive troubleshooting for optical systems, utilizing lighting simulations to determine optimal solutions.
3. Authored detailed technical reports and marketing materials to support product development and stakeholder communication.
4. Developed geometric generation programming for automated photometric output, enhancing efficiency.
5. Engineered optical lenses with ultra-low glare, significantly improving product usability.
6. Conducted simulations and calculations to optimize intensity profiles for diverse optical applications.
7. Invented and patented a technology enabling autofocus in wafer-level cameras, revolutionizing imaging technology.

#### Optical Engineer

Feb / 2018-Feb / 2021

Silver Lake Enterprises

Seattle, WA

1. Designed MATLAB software for phase contrast microscopy, enhancing the identification of optical fibers.
2. Developed algorithms for feature extraction and fiber matching, improving classification accuracy.
3. Created a user-friendly graphical interface for clients, streamlining operational workflows.
4. Established a non-destructive technique for measuring the refractive index of optical fibers, contributing to innovative research methodologies.
5. Engineered Vertical Scanning White Light Interferometer systems for precise surface profile measurements on semiconductor wafers.
6. Implemented algorithms to automate inspection processes, facilitating efficient image gathering and processing.

### EDUCATION

#### Master of Science in Optical Engineering

Feb / 2015-Feb / 2018

University of California, Berkeley

Phoenix, AZ

Specialized in optical system design and photonics.

### SKILLS

Regulatory Compliance

Optical Communication Systems

3d Modeling Software

Technical Documentation

Project Management Skills

Team Collaboration

### INTERESTS

Podcasts

Language Learning

Dancing

Cycling

### STRENGTHS

Intuition

Leadership

Listening

Mentorship

### LANGUAGES

80%

English

80%

Dutch

80%

Arabic

### ACHIEVEMENTS

Developed a patented autofocus technology for wafer-level cameras enhancing imaging precision.

Achieved a 30% reduction in optical system calibration time through innovative testing methodologies.