

Fourth-year student in Electro-Optical Engineering, driven by an ambitious approach to innovative technological solutions and hands-on experience gained during academic studies in areas such as optical systems and electronic circuits.

Proficient in developing and leading advanced technological projects in the field of optics, including the use of optical design software (Zemax, Oslo) and coding skills.

Seeking my next challenge in the engineering and development field to leverage my extensive knowledge and contribute to technological innovation and success within leading companies in the industry.

## Education

**B.Sc. in Electro-Optics Engineering and Applied Physics | The Jerusalem College of Technology (JCT) | 2021–Present**

### Projects

#### **Intra-Abdominal Pressure Measurement using Infrared (IR)**

Developed an infrared-based optical system using Zemax for precise intra-abdominal pressure measurement.

#### **Image Processing - License Plate Recognition**

Developed a Python algorithm for automatic license plate recognition using OpenCV and NumPy for improved and immediate performance.

#### **Optical Design - Laser Coupling Improvement**

Optimized laser coupling to optical fibers using Zemax and Oslo software, enhancing system efficiency and accuracy.

#### **Optical Beam Routing**

Applies deep knowledge to design and simulate optimal beam routing in advanced optical systems using geometric optics techniques.

## Experience

### **Optical Calibrator | Ophir Optronics | 2022-2023**

Performed precise optical calibrations for advanced systems using cutting-edge testing equipment and advanced calibration methods.

Executed computer-based simulations to verify and evaluate system performance.

Collaborated regularly with development, logistics, and procurement departments to ensure quality assurance and coordination of work processes.

Participated in troubleshooting and resolving issues to enhance final product performance.

**References available upon request.**

# Yinon Yerushalmi

**Electro-Optical Engineering |  
Optical Engineering |  
Electronic Engineering**



**054-4764841**



**[ynony93@gmail.com](mailto:ynony93@gmail.com)**

## Programming

Python | Matlab | Zemax | Oslo

## Measuring Instruments

Signal Generator | MMD |  
Oscilloscope | Monochromator |  
Radiophotometer | Comparator |  
Multiplier

## Military Service

Platoon Sergeant and Platoon  
Commander | Golani Brigade |  
2012–2015

## Languages

Hebrew: Native Language  
English: Very High Level