

## EDUCATION

**B.Sc, Medical Engineering**, Afeka College of Engineering (2019 - 2023)  
Average 86.6, Specialization: Medical Information Systems

## PROFESSIONAL EXPERIENCE

### Software & 3D Modeling Engineer, Geemaps (2024 - 2025)

- Developed AR infrastructure application using Unity for interactive building visualization.
- Created IFC viewer with JavaScript, HTML, and Three.js for comprehensive building models.
- Implemented and optimized Gaussian splat rendering technology, improving efficiency and reducing file sizes.
- Built automation workflows in Microsoft Power Automate and bash.
- Processed and classified point cloud data using Spatial LM using Python and Linux.
- Developed Python scripts to automate Blender builds based on text output.
- Contributed to R&D for incorporating omni-wheel robots for remote-controlled scanning operations.
- Conducted field laser scanning operations, created photorealistic 3D models and virtual tours via Reality Capture, and refined point cloud data using Leica Register, Metaport, Cloud Compare and Revit.

### Chess Teacher (2022 - 2024)

- Designed and implemented structured learning programs for students of various skill levels

### Math Tutor, Private, Zeitlin High-School (2021 - 2024)

- Provided specialized mathematics instruction for high school students

## PROJECTS

### Smart Medical Bracelet (Final Project)

- Designed wearable device using Arduino to measure vital signs including heart rate, oxygen saturation, and GPS location
- Developed information system and user interface using Python and MySQL

### Medical Data & Signal Processing Projects (Afeka & Ben Gurion University)

- Developed algorithms involving classic and AI approaches for skin cancer classification and tumor detection in medical imaging using Python and MATLAB
- Created computer vision system to track soccer bouncing count and detect violations like hand touching and ball falling to the floor.
- Performed advanced analyses on biological signals (EKG, EMG, EEG) using Python signal processing techniques
- Built decision support and business intelligence systems for medical diagnostics using MySQL and Python
- Modeled artery bypass under various blood flow conditions using Fluent and SolidWorks

## TECHNICAL SKILLS

- **Programming:** Python (signal processing, image processing, automation), JavaScript (Three.js), Unity
- **Data Management:** MySQL, data analysis, business intelligence
- **Engineering Tools:** Arduino, MATLAB, Ansys Fluent, SolidWorks
- **3D Technologies:** Point cloud processing, Gaussian splat optimization, VR/AR applications, Virtual tours.
- **Other:** Microsoft 365 (including Power Automate), Git, technical documentation
- **Languages:** English (perfect score on Amir test), Hebrew (native)