

Yael Ben Shalom

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I'm an innovative mechanical engineer, hoping to use autonomous robotics technology to solve some of the world's most pressing issues. I'm experienced in both enterprise and defense technology applications. I started my professional journey by gaining valuable hands-on experience in the elite Research and Development Unit of Israel's Military Intelligence Corps and later worked in the Mechanical Engineering Department at Elbit Systems, a global provider of Homeland Security Solutions. I wish to continue growing, challenge myself, expand my engineering skills and realize technical ambitions.

EDUCATION

B.Sc. in Mechanical Engineering, Tel-Aviv University

2014 – 2018

- Majored in Robotics and Autonomous Systems – dynamics, mechatronics, and control. Robotics courses GPA: 95; General GPA: 87.
- My thesis was about optimizing design, materials and manufacturing process of thermal straps to improve heat dissipation from optic detectors in outer space conditions, without transferring stress to the highly delicate sensors.

PROFESSIONAL EXPERIENCE

Mechanical Engineer, R&D Department, Elbit Systems

2016 – Present

- Designed, developed and evaluated mechanical parts, mechanisms, circuit boards and experimental equipment for electro-optic systems.
- Specialized in heat dissipation and structural aspects of electronic packaging for billion-dollar projects.
- Led the mechanical development of 3 cutting-edge innovative R&D projects with the Israeli Chief Scientist.
- Initiated a team of researchers studying 3D printing to reduce mfg. time and costs.
- Built a training program for mechanical engineer interns and tutored 3 new interns.

Deputy Project Manager, Intelligence Corps Technological Unit, IDF

2012 – 2013

- Managed a full project development lifecycle from research to delivery.
- Coordinated teamwork of 100 people from 7 different disciplines to complete the mission.
- Defined the management methodology and monitoring for five other projects.
- Received the Department Manager's Award for Outstanding Performance and Leadership.

Electronic Technician, Intelligence Corps Technological Unit, IDF

2010 – 2012

- Specialized in research, development, and manufacturing of multidisciplinary electro-optics systems.
- Performed integration and hardware tests for electronic circuit boards and modules.
- Developed a new process for mfg. of complex electrical & mechanical systems.

ADDITIONAL INFORMATION

Skills:

- 3D printing of plastics and metal models.
- Design and Engineering Software: SolidWorks CAD and CAE; ANSYS, CFDDesign.

Community Activities:

- Volunteer as a mentor in the program "Cracking the Glass Ceiling", a national program that promotes young women from underprivileged areas and societies to science education.
- Volunteer as a mentor and adviser to a female engineering student in the program "Babushka", an Elbit Systems initiative purpose to raise the number of women engineer graduates.
- Guided elementary school children in the youth movement of "The Society for the Protection of Nature in Israel".

Languages: Hebrew (native), English (fluent).

Interests: Avid hiker (hiked Everest, Tour Mont Blanc, and Pyrenees GR11), owns a 3D printer at home, amateur carpenter, concrete craftswoman, practices yoga.