

# CV - Ami Yaacobi

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## **Objective:**

As Chief Physicist in the EO department in Rafael and as an MIT graduate with a thesis in nano-photonics, it is extremely important for me to promote the field in Israel in general and in Rafael particularly. As part of my efforts to promote nano-photonics, I encourage engineers in my department to pursue a higher education in the field, I take responsible for their success and obligate to advise them on the thesis.

In light of this, I am trying to promote the research in, integrated photonic measurement system for alkali spin based gyro. We ask Pazi funds to help us promote this research.

## **Education:**

Sep 2010 – May 2015 Massachusetts Institute of Technology (MIT), PhD in Material Science  
Dissertation topic: Nanophotonic phased arrays for lidar applications  
Experience: Design and testing of Silicon photonic devices and sub systems  
Advisor: Professor Michael R. Watts GPA: 4.8 out of 5.0

Oct 2000 – Feb 2005 Technion, BSc in Electrical Engineering, **summa cum laude**  
Fields of specialization:

- Electro-optics
- Solid state physics

Project:

- Surface Plasmon - theoretical

Oct 2000 – Feb 2005 Technion, BA in Physics, **summa cum laude**

## **Practical Experience:**

Since Aug 2015 Chief Physicist in the EO department at Rafael Defense Systems (the department consist of about 250 academics out of nearly 300 employees).  
Main field of interest: Imaging

Responsibilities:

- **Roadmap planning for the department**
- **Coordinating research**
- **Overseeing professionalism**
- **Advise in projects**

Oct 2003 – Aug 2010 Electro optical system engineer in Rafael Defense Systems.  
Main field of interest: Imaging

Responsibilities:

- **Head of Physical Algorithms & Performance Assessment group.**  
The group consists of seven engineers and students. The group works on detector operating algorithms as well as performance simulation and assessment.

- **System engineer of an imaging system throughout the entire design and production cycle.**
- **Coaching new students & engineers in my department.**

Oct 2001 – Oct 2003 Student coaching in physics, math, and electrical engineering courses during my undergraduate studies.

### ***Awards:***

#### ***At Rafael:***

- ✓ **Two** awards for “excellent coaching of new recruitments and students”.
- ✓ **Two** awards for “novel thinking and solution” - One **patented as single inventor**.
- ✓ Award for “excellent system engineering” of an imaging sensor throughout the design and manufacturing stages.
- ✓ “Excellent system engineering” group award for suggesting and testing three system designs throughout the preliminary design stages.

#### ***During undergraduate studies:***

- ✓ 5 out of 9 semesters – President Award of Excellence, one semester - Dean’s Award of Excellence
- ✓ Two of the three remaining semesters – average grades 100/100 & 93/100 but not enough credit points to be considered for the same awards.

### ***Languages:***

Hebrew – Native speaker

English – Proficient speaker

Arabic – In a study process