

HANAN EINAV LEVY



GIVAT KOAH 8 TEL-AVIV ISRAEL

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DATE OF BIRTH: 02.01.1979

AREAS OF INTEREST: fluid dynamics, renewable energy

EDUCATION

2010 – current Technion Israel Institute of Technology, Haifa

Pursuing Ph.D. In Aeronautical engineering

- Subject: Optimal micro-siting of wind turbines in complex terrain

2008 –2010 Weizmann institute of science, Rehovot

M.Sc. degree in chemistry at the department of environmental sciences and energy research

- Subject: Heat and mass transfer from aerosol bound species, for application in the solar seeded reactor. Supervisors – Prof. Yinon Rudich, Prof. Jacob Karni

2002 - 2006 Technion Israel Institute of Technology, Haifa

B.Sc. Degree in aerospace engineering

- Project experience:

- Control project – design, construction and control of a small wind turbine in order to increase efficiency, under prof. Per Olof-Gutman.
- Research project – Implementing Conway's non-linear momentum theory for design of propeller/wind turbine blades in matlab, under Prof. Aviv Rosen
- Final project – design, construction and test flying an autonomous solar powered UAV. Including experiments with electric driven propellers in the subsonic wind tunnel.

- Courses included: (partial, full list upon demand)

- Physics of the atmosphere (Prof. Emeritus Tannhauser David)
- CFD 1 (Dr. Yuval Levy) – writing a 2D Euler flow solver in C.
- Fluid dynamics (incompressible, viscous, compressible)
- Wind turbine energy production

2005 Weizmann institute of science, Rehovot

The Emma and Oscar Getz Summer Science Program for Israeli Students

- Participating in research on the subject of thermal splitting of methane for the production of hydrogen and carbon black utilizing concentrated solar energy under Prof. Avraham Kogan

1993 - 1997 Ohel Shem high-school, Ramat Gan

WORK EXPERIENCE

- 2010 *WindAid* Trujillo, Peru
consultant/volunteer
- Teaching about the design and construction of small wind turbines for rural communities
- 2007 - 2009 *IQwind* Bachra
consultant
- Modeling the overall efficiency improvement possible with IQwinds semi-continuous gear system for large wind turbines
- 2007 - 2009 *Sovna* Tel-Aviv
consultant
- Assessing the potential of urban wind turbines in NYC and Israel high rise buildings
- 2007 *Pythagoras solar* Ramat Hasharon
Research engineer
- Developing non-tracking low concentration technology for silicon solar cells
- 2007 *Precede* Ramat Hasharon
Wind turbine investment consultant
- During my work in Pythagoras solar, I also consulted precede in regard to investment in wind turbine related start up companies
- 2006 - 2007 *Cyclone aviation Ltd.* Bar lev industrial park
Research engineer
- Developing a Structural Health Monitoring system for composite materials in collaboration with the Technion's aerospace faculty.
 - designing composite propeller blades
- 2005 - 2006 *Sharav sluices Ltd.* Haifa
Student research position
- Designing and building a small ducted turbine for a control experiment of a turbine in the aeroelectric desert tower electricity producing system
- 2004 - 2006 *Technion institute of technology* Haifa
Sport-aviation laboratory technician
- Building and structural design of undergraduate final projects – small scale, remote controlled plane models.
- 2003 - 2005 *SolarPower Israel Ltd.* Poleg industrial park , Netanya
PV and small wind turbine Installer
- Installing PV systems and small wind turbine systems
- 2003 - 2004 *Technion institute of technology* Haifa
Student research position
- Stress/Strain analysis of thin composite sheets. Connecting strain gauges and participating in experiments in the structural lab at the aeronautical and space faculty
- 2002 - 2005 *Israel national museum of science* Haifa
Museum guide
- Participating in the design of the new Aviation room (2005) and the new planned energy room
- 2001 - 2002 *Society for protection of nature in Israel* Tel Aviv

Trail marker

1998 - 2001 Army service

Combat engineering soldier and sergeant

SKILLS

Languages: Hebrew – fluent , English – fluent

Computer skills: programming in Matlab, C, VBA (basic knowledge) CAD – Solidedge, Solidworks, Cimatron, Autocad (basic knowledge only) , office tools. Basic knowledge of ComSol, OpenFoam, Fluent & Gambit CFD tools.

REFERENCES

References and letters of recommendation available on request, from:

- Associate Prof. [Per-olof Gutman](#) of Civil & Environmental Engineering, Technion
- prof. [Aviv Rosen](#) of Space & Aeronautical Engineering, Technion
- prof. [Haim Abramovich](#) of Space & Aeronautical Engineering, Technion
- Dr. Rami Gueta of Civil & Environmental Engineering, Technion
- Mr. [alon Tamari](#) CEO SolarPower Israel Ltd.
- Mr. [Gonen Fink](#) CEO Pythagoras solar