HANAN E. LEVY

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DATE OF BIRTH: 02.01.1979
AREAS OF INTEREST: fluid dynamics, renewable energy

EDUCATION

2007 – present
Pursuing M.Sc. degree in the department for environmental sciences and energy research, Weizmann institute of science

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.
  - 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

2008 *IQwind* *Bachra*
consultant

- Modeling the overall efficiency improvement possible with IQwinds semi-continuous gear system for large wind turbines

2008 *Sovna* *Tel-Aviv*
consultant

- Assessing the potential of urban wind turbines in NYC

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 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