Gal Davidi, Ph.D.

30/14 Leon Bloom st., Haifa 33852, Israel Tel: 972-4-8383555 Mobile 972-507-638-541 E-Mail: davidday@012.net.il

Job Target

- FEM Structural Staff Engineer Specializing in ANSYS and ABAQUS
- Aeronautical/Mechanical Engineering Position

Experience

2000-2004

<u>Technion – Israel Institute of Technology</u>

Haifa, Israel

Academic Teaching Assistant

- Supervising and instructing students in the "Plastic Forming Processes Laboratory". The course's syllabus included the subjects: fracture mechanics, fatigue and life duration and plastic forming processes.
- Teaching Assistant for the course "Introduction for Structural Engineering in Aeronautics".

1996-1998

Elementrix Technologies

Haifa, Israel

Vice Manager of Software Development Department

- The company developed encryption software for the internet and intranet.
- Responsibilities: production's design, module integration, deployment and quality assurance procedure designer.

1995-1996 <u>MicroMart</u>

Misgav, Israel

Entrepreneur and Founder

- A company which specializes in the development and manufacturing of automated vending machines.
- In charge of the machine's user interface software simulation, and mechanical-software interface consultancy.

1995-1996

M.N.R. Software

Haifa, Israel

Associate and Partner

- The company developed software for the management of debt consolidation files in solicitor's offices.
- My involvement included many roles: business management, product design, software support, debugging and resulting in 400 steady customers.

1992-1995

Israeli Air Force

Rehovot, Israel

Aircraft Structural Engineering Officer

- Lead and conducted the writing of Israeli F-16's application, for the implementation of the major Engineering Change Procedure (ECP) 1910, in cooperation with Lockheed-Martin's representatives (Previously General Dynamics).
- Issuing engineering orders including: analysis and simulation of cold working processes with the emphasis on fatigue life duration. Also designing and optimizing repairs for region critical parts in the aircraft's fuselage.

Education

2000-2006

<u>Technion – Israel Institute of Technology</u>

Haifa, Israel

Ph.D. in Aeronautical and Space engineering

Thesis: "Plastic Forming Processes of Metallic Composite Materials"

1995-1999 <u>Technion – Israel Institute of Technology</u>

Haifa, Israel

M.Sc. in Aeronautical and Space engineering

- Thesis: "Plastic Forming Processes through Rotating Conical Dies".
- Graduated summa cum laude.

1988-1992

<u>Technion – Israel Institute of Technology</u>

Haifa, Israel

B.Sc. in Aeronautical and Space engineering

Graduated summa cum laude.

Publications

- Durban, D., Davidi, G., and Lior, D., 2001, "Plastic Forming Processes through rotating Conical Dies", Transactions of the ASME Journal of Applied Mechancis, 68, pp. 894-902.
- Jiny, S., Davidi, G., Makevet, E., and Schur, D., 1996, "Residual Life Analysis and a Novel Repair Method for Cracks in F-16 Center Fuselage Bulkhead", Proceedings of the 1994 USAF Structural Integrity Program Conference, pp. 589-608.

Additional Expertise

- High level usage and 5 years experience of the FEM Softwares: ANSYS and ABAQUS for analyzing
 in the fields of: non-linear plasticity, contact mechanics, structures containing piezoelectric
 elements, thermal analysis and MEMS related analysis.
- Master the main CAD software packages: Autocad, Mechanical Desktop, Unigraphics, Simatron, pro-Engineer and more, including the post/pre processor PATRAN.
- Familiar with the working environment of ISO-9001 and Six-Sigma management methodology.
- Large experience with C/C++ and Fortran programming languages and also with Microsoft's new .NET technologies.
- In depth usage of mathematical software packages: Matlab, Maple and Mathematica.
- Basic capabilities and practical experience in the designing of printed circuit boards (PCBs) and basic electronic circuit design including: programming microprocessors, DSPs and Programmable microcontrollers.
- Capabilities of accompanying an entrepreneur business-technological initiative project from the "seed" stage, followed by the "prototype" stage to the "maturity" stage (I have also acquired experience in financing and funding the product during each stage).

References are available upon request.