

**Occupation:**

0211-1008 BAE Systems Bofors AB, Project Manager, Applied Physics, Karlskoga, Sweden  
0111-0211 Sectra AB, Project Engineer, Linköping, Sweden  
0008-0111 Bluetronics AB, Marketing Manager, Norrköping, Sweden  
9806-0006 Micronic Laser Systems AB, Project Manager, Täby, Sweden  
9706-9710 FFV Aerotech AB, Computer Code Developer, Örebro, Sweden

**Education:**

2003-2006 MBA - Master of Business Administration, e-Business, HiG, Sweden  
2001-2004 MA - Master of Arts, Information Design, LiU, Sweden  
1993-1997 M.Sc. - Master of Science (Civilingenjör), Applied Physics, LiTH, Sweden

**Short Education:**

0610 Far-Field, Anechoic Chamber, Compact and Near-Field Antenna Measurements, Georgia Tech, Atlanta, USA  
0509 Microstripes FDTD, Flomerics, On-site, Sweden  
0406 Leadership, Centralförbundet för Befälsutbildning, Stockholm, Sweden  
0404 Particle-in-cell Calculation with MAGIC, MRC, On-site Sweden  
0401 Pulsed Power Engineering, Texas Tech, Lubbock, USA  
0305 Antenna Design and Construction, Georgia Tech, Atlanta, USA  
0301 Information Warfare, Besser & Associates, San Jose, USA  
0002-0006 Project Economics, FEI, Stockholm, Sweden  
9903-9905 Project Management, IHI, Spånga, Sweden  
9712-9803 Advanced Analogue Design, LiTH, Linköping  
9710-9801 SWETECH, Intercultural Education, LiTH, Linköping

**Master Thesis:**

“Reservdelportal inom BAE Systems Bofors”, HiG, Reg.nr: 06-06 DDK

“Proaktiva – Information for motivation – The development of an interactive web service”, MdH, Reg.nr: IDPIDEXD:04:188

“Design of a Fully-Differential Pipelined ADC using the Switched-Capacitor Technique”, LiTH, Reg.nr: LiTH-ISY-EX-1917

**Author of books (In Swedish):**

”Trådlösa Nätverk WLAN i Praktiken”, ISBN 91-636-0739-5, Pagina Förlags AB, Sweden

”Säkerhet i trådlösa nätverk”, ISBN 91-636-0923-1, Pagina Förlags AB, Sweden

**Patents:**

WO2007086790 Method for Creating Interference, and Jamming Arrangement  
WO2009136832 Device for the Generation of Microwaves  
WO2009110826 Capacitor Arrangement and High-Voltage Pulse Generator having such a Capacitor Arrangement

### **Articles and conference presentation:**

“ETC 40-mm Gun Firings in the Low Input Energy Regime”, D. Åberg, L.P. Svanberg, F. Olsson, IEEE Transaction on Plasma Science (to be published)

“A Compact High Power Microwave System”, F. Olsson, M. Jansson, D. Åberg, 2010 IEEE International Power Modulator and High Voltage Conference, Atlanta, GA, USA

“A Very-Compact 50-kJ PFN Generator”, R.E. Beverly, D. Åberg, F. Olsson, M. Jansson, M. Karlsson, 2010 IEEE International Power Modulator and High Voltage Conference, Atlanta, GA, USA

“Ultra-Miniature 390-kV Marx Generator”, R.E. Beverly, F. Olsson, M. Jansson, D. Åberg, M. Karlsson, 2010 IEEE International Power Modulator and High Voltage Conference, Atlanta, GA, USA

“A Compact High Power Microwave System”, M. Jansson, F. Olsson, D. Åberg, IEEE 11<sup>th</sup> International Vacuum Electronics Conference 2010, Monterey, CA, USA

“A Versatile and Mobile L-Band High Power Microwave Systems”, IEEE 17<sup>th</sup> International Pulsed Power Conference 2009, Washington, DC, USA

“Optimization of the Energy Efficiency for a Coaxial Vircator”, IEEE 17<sup>th</sup> International Pulsed Power Conference 2009, Washington, DC, USA

“High Power Radiating System based on a Compact Printed Circuit Board Marx Generator”, IEEE 28<sup>th</sup> International Power Modulator and High Voltage Conference 2008, Las Vegas, NV, USA

“Experiments and Simulations of a compact UWB Pulse Generator Coupled to an Exponential Flared TEM Horn Antenna”, F. Olsson, M. Jansson, D. Åberg, M. Karlsson, B.O. Bergman, IEEE 28<sup>th</sup> International Power Modulator and High Voltage Conference 2008, Las Vegas, NV, USA

“Experimental Studies of an Axial Vircator with Different Cathode Geometries”, IEEE 16<sup>th</sup> International Pulsed Power Conference 2007, Albuquerque, NM, USA

“Realization of a Compact UWB Pulse System for Electromagnetic Vulnerability Investigations”, 1<sup>st</sup> Euro-Asian Pulsed Power Conference 2006, Chengdu, China

“The RF Demonstrator Project”, 1<sup>st</sup> Euro-Asian Pulsed Power Conference 2006, Chengdu, China

“Operational Features and Characteristics of an Axial Vircator Experiment”, 1<sup>st</sup> Euro-Asian Pulsed Power Conference 2006, Chengdu, China

“Simulation of a Compact UWB Pulse Generator Coupled to a TEM Horn Antenna Structure”, IEEE 27<sup>th</sup> International Power Modulator and High Voltage Conference, 2006, San Francisco, CA, USA

“Comparison Between Experimental and Numerical Studies of a Reflex Triode”, M. Karlsson, F. Olsson, G. Filipsson, E. Edbom, B.O. Bergman, T. Hurtig, P. Appelgren, M. Elfsberg, A. Larsson, C. Nylander, S.E. Nyholm, IEEE 15<sup>th</sup> International Pulsed Power Conference 2005, Monterey, CA, USA

“Experiments and Simulations of a Compact UWB Pulse Generator Coupled to Different Antenna Structures”, E. Edbom, F. Olsson, G. Filipsson, M.U. Karlsson, S.-E. Wiippa, S. Johansson, B.O. Bergman, IEEE 15<sup>th</sup> International Pulsed Power Conference 2005, Monterey, CA, USA