

Michael Moore

President and CEO, AetherMachines Inc.

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Summary

Creative Doctoral level EE

Experience

President and CEO

January 2004 - Present

Corporate management

Research proposals

R&D

Patents (2)

Mathematical, SPICE, CAD, FEM, CFD, and dynamical models and simulations

Mathematica, Maxima, Matlab, Simulink

DSP, Kalman filters, PIDs, and real time embedded C software

Circuit design, analog and digital; Atmel 328, 2560, PIC12/18/24, dsPIC30, STM32F, Arduino

PCB layout (2-8 layers), stuffing and reflow (SMT)

Bench test, circuit response, power consumption

Basic mechanical design

Prototyping and limited production runs

4 axis machining and CNC programming

3D printing

Electrical Engineer/Consultant at XOS (X-Ray Optical Systems)

May 2002 - December 2003 (1 year 7 months)

Circuit design including embedded 68HCxx

PCB design, stuffing, and test

Real time C software including DSP and PIDs

Named inventor on six patents

Development Engineer at GE

May 1993 - June 2001 (8 years 1 month)

Turbine controls and simulations including control blocks under QNX

Easy5x process simulations in real and expanded time

Development of desktop PC based turbine simulators over ARCnet, including user manual

Real time A/D and D/A C code and drivers for HWIL simulations

Real time scheduling under windows

Lab HWIL circuit interfacing, simulation, and test using MkV and MkVI turbine controllers

Windows NT multiprocessing device drivers

Patent for compiler based, Fortran I/O scaling routines for simulations

Six Sigma Green Belt

Electronic Engineer at Naval Undersea Warfare Center Newport

July 1992 - April 1993 (9 months)

Analog circuit design for signal injection into HWIL test setups

Circuit fabrication and test

PLD programming

C programming and UI programming

Mathematical and frequency based analysis

Sr. Project Engineer at International Paper

July 1989 - December 1990 (1 year 5 months)

Control systems, PIDs, ladder logic, I/O wiring

Project management

Budget item, labor, and material estimates

Education

Rensselaer Polytechnic Institute

Doctor of Philosophy (Ph.D.), Electrical and Electronics Engineering, 1996 - 2004

Activities and Societies: Research Assistant

Union College

Master of Science (M.S.), Electrical and Electronics Engineering, 1991 - 1992

Activities and Societies: Lab Instructor, Graduate Assistant

Union College

Bachelor of Science (B.S.), Electrical and Electronics Engineering, 1985 - 1989

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[Contact Michael on LinkedIn](#)