

## Joseph P Bouchard

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### EDUCATION

#### *University of Maine, Orono, Maine, 1981-1986*

- BS, Mechanical Engineering Technology, with High Distinction, 1986
- AS, Electrical Engineering Technology, with Distinction, 1985

Also attended classes for personal growth and lifelong learning:

- University of Southern Maine, 9 classes under Industrial Technology program.
- Boston University, 2 classes under MS Manufacturing Engineering program.
- Currently studying Computer Science at USM, with the long-term goal to obtain a Master's Degree in Computer Science.

### WORK HISTORY

#### *Computer Scientist, Computer Sciences Corporation, North Berwick ME, 5/1999-Present*

- Outsourced to CSC from P&W (as was the whole IT organization). Continued responsibilities as shown below, while also Teamleader/Project Manager over a small group of engineers, and UNIX system administrator over 140 Sun workstations and 8 Sun servers.

#### *Sr. Computer Systems Analyst, Pratt & Whitney, North Berwick ME, 1/1997-5/1999*

- Controls Engineer responsible for maintenance and improvement in control hardware/software for automated spray booths. Did some electrical troubleshooting, performed SCADA upgrades to spray booths, assumed the role of DNC system administrator, and acted as back-up person for the UNIX system administrator. Created a few ACCESS database applications with daily feeds from legacy mainframe.

#### *Sr. Methods Engineer, Pratt & Whitney, North Berwick ME, 7/1986 - 12/1996*

- Completed a two year "Manufacturing Engineering Development Program", an apprenticeship-like program for new Manufacturing Engineers.
- Manufacturing Engineer in high volume turbine airfoils, responsible for process improvements and new part start-up. Involved complex geometry, precision grinding, EDM processes and tooling. Member of an "Integrated Product Team".
- Sr. Methods Engineer in "Brush Seals", a new product line for P&W. Heavily involved with new product and process development, this frequently required inventing new concepts in tooling and machinery. Worked very closely with product designers to create cost effective solutions to complex engineering problems. Prepared quotes, internal cost estimates, and kept projects "on time and on budget". Frequently involved as the technical team leader with a group of skilled machinists to provide new products to a customer in very short leadtimes. Our team received two leadership awards.
- Issued patents US5630590, US5704760, US5732466, and US6170831 for design and manufacture of Brush Seals (with these same inventions registered in other countries).

#### *Engineering Intern, GTE/Sylvania, Bangor ME, Summer 1985*

- Assisted metallurgists with testing, problem solving and SPC analysis with very high volume welded lead wires for lighting products.

### COMPUTER SKILLS

- Familiar with DOS, Windows, UNIX/Linux, CP/M, IBM/CMS and DEC/VMS OS's; ANVIL, Unigraphics V7-V12 CAD packages; Intellution SCADA application software.
- Have programmed in BASIC, FORTRAN, PASCAL, Assembler, APT, C/C++, Visual Basic, and Perl;
- Machine code (G and M codes) for Allen Bradley, GE, Sodick, and other controllers.
- Have programmed PLC Ladder Logic for AB PLC-2, PLC-3, PLC-5, and SLC-500 controllers.

### HOBBIES, ETC.

- Assist family and friends in programming and maintaining home PC's (especially Linux).
- Work on mechanical and electrical things, "tinker". Can weld and work with fiberglass.
- Past Chapter Chairman, Society of Manufacturing Engineers, Chapter 46.