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## WORK EXPERIENCE

**Arizona Software** ([www.arizona-software.ch](http://www.arizona-software.ch)), 1989-present: cofounder. Specialty applications (sold about 5,000 copies for \$120,000), two of them won an Apple Design Award:

- Curvus Pro X (2D/3D mathematical grapher), iLocalize (localization tool), AudioXplorer (real-time sound analyzer), GraphClick (graph digitizer) and PhotoPresenter (3D slide-show).
- Curvus Pro X sold to a large computer company, 2004.

**Automation, Production Engineering and Robotics Laboratory** (Switzerland), 1998-2004. Led skunkworks team of highly motivated developers that created several successful products:

- **PowerPolish**, a revolutionary software designed to execute high quality trajectories with 6-axis robots. Currently used by Patek Philippe and Rolex (Geneva, Switzerland). PowerPolish reduced by 80% the warm-up time and by 70% the complete processing time for watch polishing.
- **Visual Interface**, the most powerful graphical user interface library for the V<sup>+</sup> system that reduced the developing time of GUIs by 80%. Exclusive contract with Stäubli Robotics France (world leader in high-precision 6-axis robots).
- **PowerWB**, an integrated robot system to process wafers in clean rooms at EM Microelectronic Marin SA. This robot system increased the production by 30%. Running time 24x7x365.

## SELECTED RESEARCH PROJECTS

- **ANTLRWorks** ([www.antlr.org/works](http://www.antlr.org/works)), 2005-current: advanced tool for developing and debugging ANTLR v3 grammars. Pioneered several new grammar visualization and analysis techniques including an interactive interpreter, language independent debugger, and grammar nondeterminism highlighter.
- **Visual Automata Simulator** ([www.cs.usfca.edu/~jbovet](http://www.cs.usfca.edu/~jbovet)), 2004-2005: the best platform independent tool to edit, display and simulate finite automata and Turing Machines.

All projects are open source under the BSD license.

## EDUCATION

- University of San Francisco, 2004-2006: M.S. in Computer Science. GPA of 4.0. Two Arts & Science Merit Scholarships.
- University of Applied Sciences of Le Locle, Switzerland. Diplôme d'ingénieur ETS, degree course in Microtechnology (major in robotics), 1992-1998. Best GPA and Microtechnology final work.

## Misc.

- Languages: French, English, and German
- Violin: Degree (certificat d'études non-professionnelles), Conservatory of Music, Switzerland, 1998