

WILLIAM A. (BILL) FELTON

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## PROFILE

Extensive experience in software development, from coder and trainer/mentor to process development and implementation, quality assurance, and project management. Preferred roles involve mentoring staff, interfacing between project teams and business customers, and guiding an agile approach to the provision of responsive services. I consider myself an 'adaptive developer' who will adopt the tools and methods of the client while constantly striving to improve results. My focus is on the edge cases, details, and priority tasks required to get the job done effectively.

## EXPERIENCE

### C\*, CAGT Training, current

Chief everything at CAGT Training. I develop for iOS using RubyMotion, develop server apis using Sinatra/Padrino or Lotus, build training materials, and deliver training. I am currently offering a "Test Driven Development on iOS with RubyMotion and RedPotion". I have a strong affinity for dynamic typing, startups and young companies, and Test Driven Requirements. I believe in hands-on training. I believe in having experienced people as trainers.

### Chief Technology Officer, DriverOnTap, 3/2014 - 7/2015

Joined a startup firm building an innovative service application for iOS and potentially other mobile platforms. Selected the base technology (Ruby), the iOS development platform (RubyMotion) and the server platform (Ruby/PostgreSQL with Sinatra/Padrino running on Digital Ocean). Established RubyMine as the preferred IDE. Established Git and GitHub as the Version Control System. Supervised coding, wrote the initial framework for the iOS app and the code for

the server and database tables. Completed the server and 2 iOS apps and deployed in nine months. Managed issues related to changing operational requirements and deployed new functionality to the server. Rewrites of the iOS apps are underway, pending funding.

## Director of Software Development/Lead Coder, Bespoke Modeling, 7/2011 - 4/2012

Joined a startup firm using Python to implement a biological modeling system. Responsibilities included requirements clarification, improvements to the base model code, implementation of the GUI using Tkinter, establishment of software development policy and practices, testing and quality assurance. The company is now working on release 2.0, having completed version 1.0 in March. This will provide support for interaction with underlying simulation and graphics packages driven from our code so we can provide a 'one stop shop' user experience in modeling, simulation, in-silico experimentation, and results analysis.

## Sabbatical, 7/2009 - 6/2011

Time off to take care of a death in the family and related issues. Decided this was the right time to refresh myself and renew my technical focus. Took training in Python, Ruby, Rails, and Agile Development and Agile Test processes. Certified as Scrum Master in 2010, implemented a (never deployed) Ruby on Rails event support tool for the local zoo early 2011.

## Training, Support, QA Manager, MioSoft Corporation, Madison, WI, 03/05 – 07/09

Initially hired to develop and deliver training on various products, I transitioned over the first year to include QA and Customer Support as higher-priority responsibilities. Played the primary role in bringing new staff up to speed on product capabilities and functions, including product usage training. Primary technologies included Smalltalk, MQ, XML, ODBC, IMS and proprietary data

access and data manipulation code. Testing focus included documenting the actual functionality of less-frequently used or maintained parts of the system as the company moved out of startup mode.

- Interviewed over 150 candidates for the QA office being established in Beijing, made final hiring decision for the nine candidates selected. Provided training, tools, and management for the Beijing office with a combination of onsite and remote interactions.
- Developed over 50 test suites focused on the core product; responsible for running the full QA cycle on each release and a specified subset on each patch level.
- Served as primary point of contact and information source for tech writers creating product documentation; prepared demos, presentations, and other support for sales and marketing efforts as part of a new product launch.
- Developed and maintained a set of tools, implemented in the MioSoft products, to track and manage support requests.
- Designed a major UI update to streamline and focus user interactions in the products.

### Software Developer, SBC, Hoffman Estates, IL. 2/04 – 2/05

Joined a Smalltalk development team working on a core business application in business services. Responsibilities included Envy Library Supervisor, code integration, coding, and interfacing with business analysts for requirements clarification and requirements review.

- Served as primary point of contact for the QA team for tools and interfacing to application sub- systems.
- Served as code librarian responsible for builds and code merges throughout the cycle.

- Mentored the offshore leads on process, standards, and application structure and behavior as project was transitioning to off-shore development.

### Programmer/Analyst, Progressive Insurance, Mayfield, OH 9/02 – 1/04

Worked with an experienced team of Smalltalk and GemStone developers on the 'Presto' team, with responsibility for requirements clarification, coding, and testing. I also began and played an ongoing role in process improvement within the team.

- Engaged with the team to revise and update process, and to enhance our utilization of our Quality Services group.
- Participated in determining how best to manage the transition period as the application was reengineered in C#/dot net/SQL Server, while continuing to serve the urgent needs of the business in the existing application.

### Application Manager, Qwest Telecommunications, Minneapolis, MN. 2/99 – 12/01

Assumed the role of Application Manager for the Integrator applications in early September 2000 after serving as application architect for the Integrator suite of application. The Integrator supports the physical and logical inventory, order flow-through automation, provisioning, and fault management services of Qwest's DSL product, as well as ATM, Cell Relay, and Frame Relay services. It also served as the Trouble Ticketing System, aggregating alerts raised at the network level into appropriate trouble tickets and monitoring both the impacts and the progress of the ticket. Integrator customers were both service providers/ISPs and service subscribers such as DSL customers or Cell Relay service customers. Primary technologies were Smalltalk, CORBA, MQ, and XML.

- Introduced Agile Development processes, which brought team back on schedule, reduced defects and improved responsiveness

- Evaluated and selected XML as the replacement for heavy-weight CORBA communication system with downstream systems. Implemented initial XML framework
- Served as a member of the Data Transport architecture team. Guided architectural changes for support of VP Tunneling and integration with Qwest services post-acquisition of US West
- Participated in and led application design session between end users and the application team and between the application team and collaborating application teams

## Development Project Lead, Sprint Corp., Kansas City, KS. 6/97 – 8/98

Project Lead for EWS, a distributed engineers' workstation to manage project workflow, bill of materials, installation and wiring instructions, and inventory records for wire centers and racks within wire centers for Sprint Long Distance Division. Responsible for ensuring overall architecture integrity, collaborating with the Application Architecture group (source of frameworks and framework enhancements), assigning work, balancing workloads, estimating level of effort for change requests, assessing trouble tickets and assigning repair tickets.

- Managed analysis, design, code walkthroughs, and test case development
- Instituted formal test development as part of the 'unit of work' life cycles within the project. Unit, integration, and system-level automated tests became part of the developers' deliverables.
- Mentored six of 18 developers. Staff achieved a high degree of proficiency.

Developer, MCG Software, Inc., Portland, OR 3/97 – 5/97

- Ported the Object Testing Framework, Version 2, to VisualAge.
- Stripped remnants of an obsolete framework and extended its replacement.
- Codeveloped elements of the interface for testing windows and menus.
- Worked on a tight synchronization schedule to keep the VisualWorks and VisualAge, Envy and non-Envy versions of the product aligned.

Developer, Overlord, Inc., Portland, OR 7/96 – 2/97

- Developed and delivered new GUI elements for viewing performance data from a proprietary Tandem OS monitor.
- Provided a configurable alarm framework for monitoring user-defined critical data values from monitor program.

Vice President of Educational Services, JumpStart Systems, Inc.,  
Raleigh, NC 12/94 – 6/96

- Managed Portland, Oregon office.
- Developed and delivered courses in VisualAge, GemStone, VisualWorks using Envy, and Object Oriented Role Analysis Modeling. Training clients included Hewitt Associates and Canada Life Assurance.
- Delivered tutorial at OOPSLA 1995: "An Introduction to the Smalltalk Language and the Commercially Available Dialects."

Director of Education, Servio Corp. (now GemStone), Beaverton,  
OR 1/93 – 11/94

- Grew and managed training and courseware development staff.

- Created training materials for three versions of the GemStone Smalltalk Interface. Delivered training to Fortune 100 clients including Texas Instruments, Ford Motor Corp., Canada Life Assurance, Acer, and Orient Overseas Container Line (OOCL).
- Assisted customers in application design.
- Consulted with customers on architecture and design issues as well as performance tuning and multiuser requirements of Smalltalk application development for GemStone.

Vice President of Educational Services, Knowledge Systems Inc.,  
Cary, NC 2/89 – 12/92

- Developed a world-renowned Educational Services Division focused on the Smalltalk language.
- Attained ParcPlace (language vendor) certification to deliver their Smalltalk training courses. First non-employee to be so certified.
- Delivered training to clients, including the first Smalltalk course offered at Texas Instruments and targeted development training with IBM and Duke Power.
- Trained over 200 engineers at IBM Cary, Austin, and Charlotte, including the teams who developed Presentation Manager for OS/2 and those who went on to seed the development of the VisualAge product line.
- Provided mentoring and Apprentice Programs to clients.
- Developed process modeling application for industry; an assets management and application selection tool for the federal government; and a design tool, process modeling, and tracking system for Ford Motor Corp.

## SKILLS

**Software Development.** All roles in the development lifecycle: business and user requirements, system analysis, software analysis and design, implementation, unit and system testing, and maintenance.

**Process Definition and Implementation.** From definition and implementation of small group best practices to definition and implementation of corporate process initiatives.

**Training.** From adult enrichment community courses to individual and small group mentoring to classroom training ranging from the public schools to Fortune 100 companies.

**Quality Assurance.** From code review to design review to testing, test plan creation and test execution with manual and automated methods. Management. From training management to team lead to Project Manager to QA management in team sizes ranging from four to 65.

**International.** From training British, German, and Spanish sales and consulting staff and developers; to coordinating the hand-off of in-house development; to offshore development teams to interviewing, hiring and training a QA team in Beijing.

**Languages/Technologies.** Ruby, Python, JSON, XML, CSS, HTML, Git, Smalltalk, Object Oriented Analysis, Design, and Implementation, Agile Development (XP and Scrum). Basic familiarity with Racket/Haskell/Erlang functional languages, C#, ASP.NET, Visual Studio, JavaScript, SQL, regex, nonSQL databases.

## EDUCATION

Michigan State University, 1987, B.A., Philosophy

Certified Smalltalk Instructor, 1991, ParcPlace Systems Inc.

Certified Scrum Master, 2010, Agile Learning Labs/Jeff McKenna



## PROFESSIONAL AFFILIATIONS

Certified Scrum Master

Member, Scrum and Agile Alliances

References available on request.