# Steven B. Felling

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(please email me if you need my address or phone number)

***Summary:***

After working for more than 15 years as an Electrical Engineer and Software Engineer, I obtained a Masters in Education degree to devote the rest of my career to teaching mathematics at the secondary level.

***Education:***

**M.S. in Secondary Education, Mathematics** - Arizona State University, TEAMS Program, GPA 4.0

- M.S. in Secondary Education (grades 7-12) with Institutional Recommendation from ASU.
- AEPA Subject Knowledge test for Mathematics (NCLB Highly Qualified).
- AEPA Professional Knowledge test for Secondary Education.
- Arizona Department of Education Teaching Certificate for Secondary Education, Mathematics.
- Endorsement for Structured English Immersion.

**B.S. in Electrical Engineering -** Arizona State University, GPA: 3.84

***Education Career Experience:***

**Certified Teacher, Desert Vista High School**, *(2010 - Present)*
I am currently teaching mathematics full time at Desert Vista High School in the Tempe Union High School District.

**Certified Substitute Teacher, Tempe Union High School District**, *(April - May 2010)*
I taught full time as a substitute teacher for Mrs. Deborah Faber (Honors Precalculus and Algebra 1/2) during her maternity leave for the months of April and May, 2010, at Corona del Sol High School.

**Student Teaching at Corona del Sol High School**, *(January - March 2010)*
I worked 5 days per week as a student teacher in the classroom of Mr. Donald Guess, Math Department chair at Corona del Sol High School, including all lesson planning and teaching for Honors Algebra 3/4 (trigonometry) and Geometry classes. After school, 4 days per week, I also tutored students from other math classes.

**Teaching Internships at San Tan Junior High and Chandler High School**, *(July - December 2009)*
I worked 2 days per week as an Intern with Mrs. Michelle Swartz at Chandler High School teaching 10$^{th}$ grade Geometry and 11$^{th}$ grade Math Standards (AIMS review) and 2 days per week as an Intern with Ms. Sarah Winzeler at San Tan Junior High School teaching 7$^{th}$ and 8$^{th}$ grade CATS (Chandler Academically Talented Students) math classes.

**Certified Substitute Teacher, Kyrene School District**, *(2008 - 2009 School Year)*
I worked as a substitute teacher in a variety of math and science classes at three middle schools in the Kyrene School District (Pueblo Middle School, Kyrene Middle School and Centennial Middle School). Most of my substitute teaching experience was in 8$^{th}$ grade math classes at Pueblo Middle School.

***Engineering / Entrepreneurial Career Experience:***

**Owner - Brainstorm Web Design LLC**, *January 2003 to June 2008*
As owner/operator of this single-person freelance web development company, I designed a variety of websites for small businesses, non-profit agencies, and did subcontract work for advertising agencies.

**Senior Software/Hardware Engineer - Intel**, *April 1997 to January 2003*
During my six years at Intel I had different roles in three different departments:

- Senior Software Engineer, Embedded Intel Architecture Division – I worked as part of a team of firmware engineers writing software motherboard initialization code that was installed in custom motherboards that Intel designed for high-volume customers.
- Senior Software Engineer, Intel Labs / Consumer Media Technologies – I worked as part of a team developing C and C++ object-oriented software for media systems such as DVD players, personal video recording (similar to Tivo), console game emulators, photo album displays and audio libraries. My specific role was architecting

and coding the video subsystem and the audio/video synchronization system, and this software was designed to run on either Windows or Linux.

- Senior Hardware Engineer, Digital Imaging and Video Division – I served as lead electrical engineer on a project to create a digital camera reference design, designing the schematic and circuit board layout, and integrating the camera and software. Intel was exploring the possibility of creating all the chips needed for a camera company to build a camera, and my team designed an 'example' camera to prove the concept and provide a means to test the chips. This work included travel to Asia to hand off the camera design to high volume camera manufacturers.

**Member of the Technical Staff - EF Data (now Comtech)**, *June 1996 to April 1997*
At EF Data, I worked in the sustaining engineering department fixing manufacturing problems with satellite modem and microwave communication products.

**Senior Electrical Engineer - Acoustic Imaging**, *April 1995 to June 1996*
Acoustic Imaging was designing a new medical ultrasound machine, and I designed the circuit boards that detect Doppler shift in return ultrasound echoes which allows blood flow to be displayed with a color overlay on the ultrasound image display.

**Senior Electrical Engineer - Orbital Sciences Corporation**, *June 1991 to April 1995*
I worked as an RF (Radio Frequency) Communication Systems engineer on some of the early space test programs for the missile defense shield. My role was to handle everything related to radio communications on the space vehicles as the RF team member on a launch project, including radar systems, telemetry communication and the ability to remotely destroy an off-course rocket. This included RF link budget analysis, working with launch ranges to obtain permission to use their ground station antennas, specifying, ordering and testing RF equipment for the vehicle such as antennas, transmitters and receivers and working as part of the launch team during the rocket launch. While at Orbital, I also developed and created software that provided computerized, more accurate predictions of radio link performance for space missions.

**Electrical Engineer - Motorola (now General Dynamics)**, *January 1987 to February 1991*
I designed microwave equipment and fixed manufacturing problems for classified military electronics programs, primarily radar systems and electronics used in military aircraft.