# Roy Chancellor

Lifelong programmer seeking Java developer position

Life-long programmer who loves to solve problems is pursuing a career in Java software development. Passionate and tenacious about exceeding requirements to create the best possible customer experience. With a total of 25 years' experience in mechanical engineering and mathematics education, I have demonstrated mastery of finishing projects, managing multiple priorities, and communicating effectively with a wide variety of people.

## Experience

**2006** **Mathematics Education**

*2006 - 2013 and 2015 - 2019*

**Math Master Teacher**, Great Hearts Academies (2008 - 2013 / 2015 - 2019)
Created mathematics curricula from Algebra 1 through Calculus 2 and delivered with passion, energy, and clarity. Mentored teachers with the goal of increasing student learning. Created the school master schedule, each year solving multiple conflicts generated by error checking code in Excel VBA.

**Math Teacher**, Scottsdale Unified School District (2006 - 2008)
Developed a consumer math course that taught real-life financial and business skills to high school seniors

**1994** **Engineering**

*1993 - 2006 and 2013 - 2015*

**Manufacturing Engineer**, Schweitzer Engineering Laboratory (2013 - 2015)
Introduced new products to production by managing multiple part changes, building prototypes, and configuring ERP systems

**Statistician**, Intel Corporation (2005 - 2006)
Analyzed complex data sets in JMP to help development engineers make decisions about materials and solve technical problems before production

**Six Sigma Master Black Belt**, Rogers Corporation (1999 - 2005)
Led a corporate-level team of black belts that completed projects across the company netting > $1M savings over 3 years

**Mechanical Engineer**, Orbital Sciences Corporation (1998 - 1999)
Created a unique mechanical solution for a circuit board that cracked during shock testing and qualified the solution for flight

**Process Engineer**, W.L. Gore and Associates (1994 - 1998)
Designed LabView code to dial an operator's pager when a constraint machine went down and created an Access database to collect capacitance

**Automated Test Programmer** (Contract), EF Data (1993 - 1994)
Created a suite of test automation scripts in C that reduced time to final test satellite modems

## Education

**2019** **Certificate in Java Programming**, Grand Canyon University
Java programming certificate focused on core Java for developing back-end web applications. Technologies include ....

**2004** **Graduate Certificate in Applied Statistics**, Rochester Institute of Technology

**1993** **M.S. Mechanical Engineering**, Texas A&M University

- **Thesis**: *Parameter Identification Using Nonlinear Dynamics and Chaos* (article published in the *ASME Journal of Vibration and Acoustics,* July 1996)
- Co-created a micro controller-based active-damping system for a 1/4 car suspension by writing C code that implemented PID control
- Simulated the dynamic response of a five-pendulum test rig using C language code to solve the matrix equations of motion

**1991** **B.S.E. Mechanical Engineering**, Arizona State University

## Personal Info


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## Skills

**Java**: Skilled at writing object-oriented code that is clean and easy to maintain using #### technologies

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**C/C++**: Wrote code to acquire & display data from A/D cards, communicate through RS-232, simulate dynamic systems, and perform mathematical computations

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**VBA**: Wrote VBA code to automate data processes in Excel

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**Python**: Basic skills acquired through online Udemy course

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**Front-end web design:** Able to use HTML and CSS to create web sites. Currently studying JavaScript and React

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**Data analysis**: Skilled at JMP and Minitab to analyze complex data sets across a variety of disciplines

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## Courses

Java Programming I, II, and III

Open Source Computing

C Programming

Regression Analysis I and II

Design of Experiments I and II

Theory of Statistics I and II

Introduction to Numerical Methods