# John Heizer

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## Experience

**2019–Present**   **Electronics Engineer**, *Cimarron Energy*, Wheat Ridge, CO.
- Maintained and improved industrial control system product code bases.
- Moved development to GitHub with code reviews for improved code quality.
- Introduced Continuous Integration with lint checking and on-target unit and integration testing.
- Involved in the planning for the next generation of products.

**2014–2019**   **Firmware and Software Engineer**, *Clear Blue Engineering*, Lafayette, CO.
- Developed the firmware for an ARM based IoT device to measure and control power consumption in residential and commercial settings.
- Created and maintained firmware for several embedded systems running PIC and ARM micro-controllers.
- Helped to develop a HIPAA compliant tele-medicine product for a client.
- Designed and 3D printed numerous jigs and fixtures to help production staff increase throughput and repeatability in the manufacturing process.
- Created the PCB layout for our company Maker Faire project.

**2010–2012**   **Software Engineering Consultant**, *Clear Blue Engineering*, Lafayette, CO.
- Created an Android application for a client which displayed complex, multilingual dynamic content retrieved from a web server and sent responses from user input back to the web server.
- Created a .NET application in C# to interface with a web server and translate data received into a format readable by a custom embedded device.
- Added the ability to display and input reshaped Arabic text in Android OS.
- Interfaced with clients to determine product specifications, design goals, time tables, and bug fixes.

**2005–2009**   **Student Data Specialist**, *Denning Research Group, Department of Atmospheric Science, Colorado State University*, Fort Collins, CO.
- Maintained computing resources including but not limited to storage servers, computing clusters, and NFS servers.
- Helped design a new computing cluster according to requirements set by the research group.
- Helped transition servers to use LDAP.

**2007–2007**   **Interim Student IT Professor I**, *Denning Research Group, Department of Atmospheric Science, Colorado State University*, Fort Collins, CO.
- Increased storage capacity to meet the growing demand for larger cluster output data.
- Reorganized network switches to increase throughput, provide fault tolerance, and make management easier.
- Purchased new equipment to make the remote management of servers easier.

## Technical Experience

**Languages**   C, C++, C#, CSS, Java, Javascript, JSON, LATEX, PHP, Python, Rust, Scheme, HTML

**Tools**   Android Studio, CircuitMaker, CMake, Doxygen, Eclipse, gdb, git, GitHub, IDA Disassembler and Debugger, Microsoft Visual Studio, MongoDB, OnShape, PostgreSQL, Upverter, Vim, VS Code

**Platforms**   Android, Arduino, ARM, ChibiOS, FreeRTOS, Linux, Mbed, OS X, PIC, Windows

## Education

**2003–2009**   **Bachelor of Science**, *Colorado State University*, Fort Collins, CO.

**Majors**   Computer Science, Mathematics