

# John Heizer

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## Experience

- 2019–2020 **Electronics/Firmware Engineer II**, *Cimarron*, Wheat Ridge, CO.
- Maintained and improved industrial control system firmware.
  - 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 including architecture, protocols, and tooling.
- 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.

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## Technical Experience

Languages	C, C++, C#, CSS, Java, Javascript, JSON, $\text{\LaTeX}$ , 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

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## Education

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

Majors Computer Science, Mathematics