

# John Heizer

10650 Durango Pl  
Longmont, CO 80504  
(970) 412-5756  
[jack.heizer@gmail.com](mailto:jack.heizer@gmail.com)  
[bitbucket.org/jackheizer](https://bitbucket.org/jackheizer)

## Experience

- 2014–Present **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 microcontrollers.
  - 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, L<sup>A</sup>T<sub>E</sub>X, PHP, Python, Rust, Scheme, HTML
- Tools Android Studio, CircuitMaker, CMake, Doxygen, Eclipse, gdb, Git, IDA Disassembler and Debugger, Microsoft Visual Studio, MongoDB, OnShape, PostgreSQL, Upverter, Vim
- Platforms Android, Arduino, ARM, FreeRTOS, Linux, OS X, PIC, Windows

## Education

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