Contributions to Community

Andrew Green

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https://github.com/andrewgreen76/portfolio

Projects

Contributor to education of computer engineering | Reddit | online   September 2023 - present

- Assisted Reddit users with troubleshooting their prototyped circuits using their videos and descriptions
- Built and programmed a low-power computer with an 8-bit architecture, a 1kHz clock, and 16B memory
- Engineered an LED display for reflecting un-/signed data on the bus using 2K AT28C16 EEPROM ICs
- Resolved voltage fluctuations and poor current routing using multimeters and an oscilloscope
- Achieved full circuit functionality through modifying design solutions due to hardware limitations
- Resolved issues pertaining to incompatibility of components through improvisation using soldering skills

Volunteer for development of terminal-based Gmail UI | GNU | online   August 2023 - September 2023

- Wrote step-by-step documentation on the installation and use of Notmuch for users of all backgrounds
- Achieved email fetching, syncing, storing, and look-up via the Bash terminal
- Repurposed configs in Elisp to leverage the IMAP protocol for fetching new emails
- Integrated the Notmuch email client within the config files for accessing and updating email space

Founder, contributor | GitHub edutainment project | online   August 2023 - September 2023

- Filled in gaps by writing succinct explanations of a variety of computer engineering concepts
- Completed working programs and scripts in a variety of languages for students to experiment with
- Formulated a program for educational success in studies of history and design of devices and systems

Software Engineering Intern | Bally Technologies, Inc., Reno, NV   November 2013 - May 2014

- Completed the core OCR components of a progressive jackpot monitoring system
- Researched the method of four moments as a design idea for numerical recognition
- Implemented dollar amount recognition and display in C++ using OpenCV
- Provided feedback on the implementation of the client-server capabilities in C#

Financially providing dependent student and co-resident family member   March 2009 - August 2017