

# Chris Miller

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## Profile

A life-long programmer, maker, and technology enthusiast seeking full-time or contract employment in the field of embedded electronics with exposure to hardware design. Open to relocation.

## Experience

### **VICE-PRESIDENT, BOZEMAN MAKERSPACE, BOZEMAN, MT – 2017 TO PRESENT**

Plan and teach classes on electronics, software, CAD, art techniques, and hobbies. Develop social media posts, create tools and necessary hardware.

### **INDEPENDENT WEB DEVELOPER, TRAILHEAD INTERACTIVE, LIVINGSTON, MT – 2001 TO PRESENT**

Full-stack web developer and consultant serving clients around the world. Specializing in Drupal CMS customization and database design, creation and data migration.

### **SDK SOFTWARE DEVELOPER, OPENDESIGN, INC. - REDMOND, WA – 2001**

Created example code, documentation, and helped develop a startup B2B product.

### **SDK SOFTWARE DEVELOPER, MICROSOFT CORP, REDMOND, WA – 1998 TO 2000**

Created build related tools to transform XML metadata into HTML documents for use in help files. Fixed bugs and updated functionality in Windows Platform SDK samples across the full spectrum of Microsoft APIs.

## Skills

- C/C++ and Python
- Arduino and Atmel MCU
- STM32 with GCC toolchain
- ESP8266/32 Arduino and Micropython
- Register level programming of hardware
- API design and language bindings
- WiFi and Bluetooth integration
- MqTT publish and subscribe
- I2C, SPI, 1 wire, serial
- Digital circuit design
- One-off hardware construction
- Troubleshoot with scope, analyzer, multimeter
- Multimedia with Libcinder, LibSDL, OpenGL
- Git, GitHub, Git flow
- Remote and local debugging
- Eagle and KiCad PCB layout, milling, ordering
- Soldering, SMD, assembly and minor rework
- 2d/ 3d CAD/CAM, CNC, 3d Print, Laser

## Projects

For projects visit: <http://www.chrismillerstuff.com>

## References

Brent Robbins - Design / Owner, Variant Studios  
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970-405-2777 - [brent@variantstudios.com](mailto:brent@variantstudios.com)

Derek Newkirk - DevOps Engineer, PlayNetwork  
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