

Chris Miller

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Profile

A life-long programmer, maker, and technologist seeking full-time or contract employment in the fields of embedded software, electronics, and hardware design. Open to relocation.

Accomplishments

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

Create and teach classes on electronics, software, CAD, and art. Fund raise, maintain tools, planning.

INDEPENDENT DEVELOPER, TRAILHEAD INTERACTIVE, LIVINGSTON, MT – 2001 TO PRESENT

Full-stack developer and consultant serving clients around the world. Specializing in Drupal CMS customization and database design, creation and data migration. Embedded software and open source hardware since 2017.

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 sample code for the Windows Platform SDK covering many Microsoft APIs.

2018 HACKADAY PRIZE MUSICAL INSTRUMENT CHALLENGE FINALIST

Designed, built, programmed, and documented "Teensy Beats Shield" - an open-source hand-held step sequencer using the Teensy 3.6 platform. Participated in the awards ceremony at Hackaday Supercon in November 2018.

Skills

- C/C++ and Python
- Arduino and Atmel MCU
- Nordic NRF52 SDK and Segger studio
- STM32 with GCC toolchain
- ESP8266/32 Arduino and Micropython
- Register level programming of hardware
- API design and language bindings
- Git, GitHub, Git flow
- Remote and local debugging
- Multimedia with Libcinder, LibSDL, OpenGL
- WiFi and Bluetooth integration
- Addressable LEDs including WS2812B, APA102C, LPD8806
- I2C, SPI, 1 wire, I2S, serial
- Digital circuit design
- One-off hardware construction
- Troubleshoot with scope, analyzer, multimeter
- Eagle and KiCad PCB layout, milling, ordering
- Soldering, SMD, assembly and minor rework
- 2d/3d CAD/CAM, CNC, 3d Print, Laser cutting

Projects

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

References

Brent Robbins - Design / Owner, Variant Studios
619 South College, Fort Collins, CO 80524
970-405-2777 - brent@variantstudios.com

Derek Newkirk - DevOps Engineer, PlayNetwork
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