Jeffrey Chen

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Education

University of California: Riverside
Bachelors of Science, Computer Engineering December 2015 (Expected)

Awards

2013 - ACM Hackathon @ UCR, 2nd place
2013 - ACM International Collegiate Programming Contest Contestant
2014 – Citrus Hack hosted by ACM participant

Projects

Servo motor controller error handler

An Embedded Systems project aimed at ensuring that a Litho-flexo label printer does not jam on its material during normal operation. The embedded PICF6585 64-pin TQFP was based on an in-house board that I helped fabricate.

Arduino-based material unwinder

A replacement for a jerky dancer arm-controlled material feeder. An Arduino using an ultrasonic receiver/detector module would control a motor to ensure smooth feeding into a printer.

Arduino-based material rewinder

An Arduino was used to control a motor that would ensure tension when rewinding material after it was finished printing to prevent the material from stretching and causing top-bottom misalignment and artwork deformation.

Bow and Arrow game

An embedded systems project utilizing the ATMega1284 microprocessor. Two players took turns shooting arrows at each other using a potentiometer and button, displayed on a LCD screen, the inputs read through USART.

Self-made hidden-desk

A hardware woodworking project that combines the functionality of a bed and desk into a space saving design. It uses a pneumatic spring lift support to ensure easy transition between bed mode and desk mode.

Skills

- Coding experience: C++/C.
- Development experience: EagleCAD. Electronics design, PCB Layout, Unity, Android Studio
- Some exposure to: Javascript, HTML, CSS, Python, 3D Graphics, OpenGL, Maya, Git
- Operating System: Windows, Linux
- Prototyping with Laser Engravers, CNC Machines, Mills, Lathes, Woodworking, 3D Printers