

FEILAN JIANG

Versatile software-oriented maker

Goal-oriented problem solver

Inquisitive multidisciplinary learner

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QUALIFICATIONS

Software

C, C++, Python, Java, JavaScript, HTML, CSS

OpenCV, ncurses, Kivy, Plotly, Tkinter, Swing, JavaFX, jQuery, AngularJS, Node.js, Express.js

Git, GDB, Valgrind, npm

Proficient with Linux and Bash commands

Mechanical

AutoCAD, SOLIDWORKS

General machining

Robotics

Arduino, Raspberry Pi

Common sensors, PID loops, finite state machines

EDUCATION

BASc Mechatronics Engineering, University of Waterloo

EXPERIENCE

Software Developer

Nanometrics Inc.

1/2017-4/2017

- Developed a C-based command-line utility for estimating the remaining lifespan of an MMC device
- Devised an SD card wear rate testing methodology involving SMART data and standard SD controller commands
- Automated cross-compilation of internal software tools by using the Autotools suite to generate the appropriate Makefile

Project Manager

UW Robotics Team

9/2016-present

- Served as project manager for a student robotics competition, delegating tasks based on technical experience and winning first place overall
- Played a key role in sensor mount and electrical design for the International Autonomous Robot Racing Competition, placing first among the Georgia Institute of Technology and other universities from across the world

PROJECTS & ACTIVITIES

Fog-screen Hologram

Collaborative Project

1/2017-present

- Low-cost volumetric display with applications in augmented reality and CAD
- Uses an IR camera that tracks the viewer's position and is timed using the ATmega32U4's 16-bit timer overflow interrupt vector

Random Movie Finder

Independent Project

8/2016

- Created a Bootstrap and AngularJS-based interactive movie recommendation tool that gauges users' viewing preferences
- Implemented a simple Express.js-powered RESTful API that provides form selection options and movie suggestions
- Stays updated with the latest movie trends through The Movie Database API

Logicle

Independent Project

6/2014-6/2015

- Conceptualized, implemented, and published a cross-platform, colour-based puzzle game
- App won two top prizes at the 2015 TechU.me AppJam finals in Ottawa: one for design and technical sophistication, and one for outstanding product presentation