FEILAN JIANG

Versatile softwareoriented maker

Goal-oriented problem solver

Inquisitive multidisciplinary learner

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EXPERIENCE

Software Developer

Nanometrics Inc.

1/2017-4/2017

- Devised a standardized SD wear rate testing methodology involving SMART data and standard SD controller commands
- Optimized performance on Linux-based seismometers by fine-tuning JVM memory consumption
- Automated platform-specific compilation of internal software tools using the Autotools suite

Programming Lead

FRC Team 4783

9/2016-5/2017

- Mentored inexperienced younger students on the fundamentals of C++ robotics programming
- Coordinated team logistics with other department leads to ensure the robot was competition-ready

QUALIFICATIONS

Software

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

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

Git, GitHub, BitBucket

Mechanical

AutoCAD, SOLIDWORKS

Basic machining

Robotics

Arduino, Raspberry Pi

Common sensors, PID loops, finite state machines

EDUCATION

BASc Mechatronics Engineering, University of Waterloo

PROJECTS & ACTIVITIES

Fog-screen Hologram

Collaborative Project

1/2017-present

- Goal is to produce a low-cost, hyper-realistic volumetric display with applications in augmented reality, CAD, etc.
- Utilizes OpenCV vision processing to detect human observers' faces and hand gestures in various lighting conditions

Robotics

UW Robotics Team

9/2016-present

- Currently involved with sensor mount design for the Robot Racing competition
- Oversaw the creation of a competition-winning, Arduino-powered line-following robot that plays musical notes according to the length and shade of the line
- Mobile Game Dev

Independent Project

6/2014-6/2015

- Conceptualized, implemented, and published a crossplatform, colour-based puzzle game designed to please the eye and stimulate the mind
- App won top prize for game design and technical sophistication at the 2015 TechU.me AppJam finals in Ottawa