Victor Dadfar

Personal portfolio: http://www.victorjdadfar.me

Education

Bachelors of Science; Double Major in Biomedical Engineering and Computer Science — *May 2018 (Expected)*
Johns Hopkins University, Baltimore, MD

High School Diploma — *June 2014*
Morris Hills High School, Rockaway, NJ

Skills

Languages: C/C++, Java, Basic, HTML/JavaScript, Objective-C, Python

Software Platforms: Visual Studio 2008, Eclipse, MatLab, Xcode, Arduino, Unity, Android Studio, LaTeX, Dreamweaver

Operating Systems: Windows XP-8, Linux Fedora/Ubuntu, OS X Mavericks/Yosemite

Certifications: Microsoft Office Specialist in Word, Excel, Powerpoint

Research

Ultrasound Transducer 3D Tracking System — *May 2015–present*
Research Assistant– Programmer
Faculty Advisor: Dr. Ilker Hacihaliloglu, Rutgers University
- Creating a low cost method for tracking an ultrasound transducer in 3D space using an Arduino and an accelerometer

Tocodynamometer and Fetal Heart Rate Monitor – Engineering World Health — *Nov 2014-present*
Research Assistant – Programmer
- Designing a low cost toco device to monitor a child during pregnancy and after birth using an Arduino and various sound processing algorithms on a smartphone

Tablet-Based Method for Handwriting Assessment– Kennedy Krieger Institute — *Feb 2015-present*
Research Assistant – Programmer
- Improving and building upon an app for iOS and Android tablet that easily and efficiently collects handwriting data to send to cloud servers for post-processing

CITT Kit Design Team – Center for Bioengineering and Design — *Nov 2014–May 2015*
Research Assistant
Faculty Advisor: Dr. Robert Allen, Johns Hopkins University
- Conceived a low-cost modular contraceptive implant training tool for developing countries, named "CITT Kit", that can handle implants and removals

Predictive Insight on the Future of Computer Graphics – Morris Hills High School — *2011-2014*
Research Assistant, Paper Author
Faculty Advisor: Mr Micheal Bermel, Morris Hills High School
- Designed and experimented on many different algorithm tests to compare the efficiency and aesthetics of certain graphical methods
- Concluded ray tracing and meshes structured at the atomic level to be the future

Leadership

Founding President of HackerLab, *Johns Hopkins University* — *Oct 2014-present*
- Created a computer science interest group, oversee weekly meetings

Founding Co-President of Junior Auxiliary, *St. Clare's Hospital* — *June 2012-present*
- Launched a non-profit organization of healthcare volunteers benefiting the local community

Service

Refurbisher Volunteer, *Bootup Baltimore* — *Sept 2014-present*
- Refurbish old desktops and laptops for use in the Baltimore Public School System

Team Leader Volunteer, *St. Clare's Hospital* — *May 2010-present*
- Gave over 1200 hours in the last three years with various volunteer awards

Activities

Extracurricular Activities, *Johns Hopkins University* — *2014-present*
- Black and Blue Jay, Writer, February 2015
- Iranian Culture Society, Board Member, September 2014
- Association for Computing Machinery, Member, September 2014
- Biomedical Engineering Society, Member, September 2014