

CHRISTOPHER H. POOLE

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EDUCATION

The George Washington University, Washington, D.C. *August 2014 - Present*

B.S. Mechanical Engineering, concentration in Robotics - Expected graduation May 2018

School of Engineering and Applied Science: Cumulative GPA: 3.73, Dean's Scholar, Dean's Honors List

The Albany Academies, Albany, New York *September 2000 - June 2014*

Cumulative 9th - 12th grade unweighted GPA: 4.0, Cum Laude, AP Scholar, School Leadership Position

Holder, Online Newspaper President, Varsity Swim Team Captain

WORK EXPERIENCE*

Flight Dynamics and Control Lab - GW School of Engineering and Applied Science - *May 2015 - Present*

Research Assistant - work with unmanned aerial vehicles, motor control, serial communication on Linux and Arduino based controllers, attitude control, data logging

Hippo's Home Entertainment Center *June 2013 - August 2014*

Home theater and electronics salesperson, installer, technician

Clough Harbour & Associates *May 2014 - June 2014*

Mechanical Engineering Intern - mechanical/structural calculation, design, and implementation

SKILLS

Traits: Driven to perfectionism, quick to learn new skills, creative perceptiveness, experience with group work, inquisitive learning style, passion for electronics and electronic systems

Proficiencies: 2D & 3D CAD (SolidWorks, AutoCAD, Inventor, SketchUP), CNC Milling/Machining, Video/Graphics (After Effects, Final Cut Pro, Adobe Photoshop, Illustrator), Excel, Word

Programming: C/C++, Arduino, C, Processing, MATLAB, GCode, HTML, JavaScript, library implementation

Electronics Experience: Embedded microcontroller systems (Arduino), knowledge of basic circuit principles, implementation of motors and servos, pulse-width-modulation

PRACTICAL & LEADERSHIP EXPERIENCE

GW Tech Collective *August 2014 - Present*

"Promoting Innovation and Technology at The George Washington University"

Head Board Member - *December 2015 - Present*

General Board Member - *December 2014 - December 2015*

FIRST Tech Challenge (F.T.C.) Robotics Team *2010 - 2014*

Design, construction, and testing of robotic systems, mechanics, and electronics

TechShop DC-Arlington: Member *December 2014 - Present*

PUBLICATIONS

[1] Shankar Kulumani**, Christopher Poole, Taeyoung Lee. *Geometric Adaptive Control of Attitude Dynamics on SO(3) with State Inequality Constraints*, 2016. To appear in the *2016 American Control Conference*.

*References available upon request