

Christopher Pagano

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EXPERIENCE

CP Consulting, New York, N.Y.

March 2016 – Present

Owner/Mechanical Engineering Consultant

Clients: Vkanix, Inc., Piasecki Aircraft Corporation

- Prepare assembly and drawing packages including CAD models, BOMs and wiring schematics
- Perform design studies and component selection for various electro-mechanical projects in development
- Participate in development meetings and publish proposals and progress reports throughout the design cycle

Piasecki Aircraft Corporation, Essington, P.A.

October 2015 – October 2016

Mechanical Engineer/Project Engineer

- Led a multi-disciplinary team in the development of preliminary/detailed designs of UAV systems and tooling assemblies
- Acted as liaison between clients, vendors and engineering department for scheduling and construction
- Performed trades and design reviews to guarantee manufacturability and ease of assembly while keeping costs low

Atair Aerospace, Brooklyn, N.Y.

August 2014 – August 2015

Mechanical Design Engineer

- Designed multi-component assemblies for manufacture; consulted with suppliers; maintained drawing packages
- Fabricated, integrated, analyzed and flight tested R&D prototypes as necessary both locally and off site
- Formulated assembly manuals, trade studies, test/evaluation and other in-depth reports for clients and IR&D
- Operated as primary machinist in the machine shop for in-house prototype fabrication and shop maintenance

Tomorrow Lab, New York, N.Y.

March 2014 – May 2014

Mechanical Engineering Intern

- Brainstormed product concepts with clients and within the company to develop future product plans
- Performed electrical and structural tests for component selection and integration into manufacturing
- Repurposed a 3D printer into a CNC mill able to mechanically route PCBs for prototyping

Dynamical Systems Laboratory – NYU Polytechnic School of Engineering, Brooklyn, N.Y.

May 2010 – January 2014

Graduate/Undergraduate Researcher

- Developed UAVs for image capture in large scale surface flow particle image velocimetry studies
- Manufactured and characterized buoyant fluorescent particles for surface water flows studies encompassing PIV
- Designed a brushless motor driven camera gimbal for image stabilization
- Designed a low-cost portable water tunnel with varying slope for in-situ flow visualization studies
- Characterized the response of submerged flexible structures exposed to cyclical torsional and impact-induced vibrations towards realizing possible energy harvesting capabilities
- Designed low-cost setup for visualization of vortex formation over submerged structures

SKILLS

Software: MS Office, Visio, Project, SolidWorks, SW Flow Simulator, ANSYS, MATLAB/Simulink, EagleCAD,

Languages: MATLAB, LaTeX

Mechanical: Manual Lathe, Milling machine, Drill press, Circular saw, Band saw, Jig saw, 3D printing

Electrical: Circuit design, Through-hole/SMT/SMD soldering, PCB etching/milling

EDUCATION

New York University – Polytechnic School of Engineering, Brooklyn, N.Y.

January 2014

Master of Science in Mechanical Engineering (GPA: 3.5/4.0)

New York University – Polytechnic School of Engineering, Brooklyn, N.Y.

January 2014

Bachelor of Science in Mechanical Engineering, Minor in Aerospace Engineering, Magna Cum Laude, (GPA: 3.6/4.0)

ACCOMPLISHMENTS

Boy Scouts of America: Eagle Scout of Troop 383 (2009), Order of the Arrow Brotherhood Member

Awards/Honors: Best Thesis in Mechanical Engineering (2014), Tau Beta Pi: Engineering Honor Society (2012), Best Mechanical Engineering Research Experience for Undergraduate Project (2012)