Patrick J. Lingane

Creative problem solver with an intuitive and hands-on sense of systems and geometry. Highly perseverant when faced with tough challenges. Clear and concise writer with broad mechanical design and leadership experience.

- lingane.com/family/patrick linkedin.com/in/patricklingane/

 - patrick@lingane.com 650-465-0418 (nights/weekends)

Skills

- ●●●● Abagus FEA. MATLAB. SolidWorks, CAD
- •••• Machining, rapid prototyping, and welding
- ••ooo Electrical circuit design
- •••• Writing and communication skills
- •••• Project management
- •••• Microsoft Word, Excel, PowerPoint, SharePoint, Office 365
- ••ooo C++, Java, JavaScript, CSS
- ••ooo Spanish

Education

2009-2010 Cornell Univ. Ithaca, NY **Masters of Engineering in Mechanical Engineering**

Concentration in Mechatronics (robotics, dynamics and controls)

2005-2009 Union College Sch'dy, NY **B.S.** in Mechanical Engineering

- Magna Cum Laude
- Engineering term abroad to University of La Salle, Mexico City

Honors / Achievements

- Tau Beta Pi (engineering)
- Pi Tau Sigma (mech. engineering)
- Sigma Xi (scientific research)
- **Engineer in Training**
- Eagle Scout

Personal

I am proficient in **Spanish**. I enjoy the outdoors, swing dancing, and making household gadgets on my 3D printer.

Work Experience

2017 - current Naval Nuclear Lab, KAPL Schenectady, NY Senior Engineer, Innovation Program

- Administered programs to solicit innovations from employees and provide test space, funding, and mentoring
- Coordinated and assisted with internal conferences, design competitions, innovation labs, and networking
- Project managed a 4 year effort with a core team of 5 people to establish the use of unmanned vehicles (drones), including engagement with several federal agencies, safety, security, cybersecurity, and legal personnel. This was the first use of wireless systems on site.
- Built several attractive websites using SharePoint / HTML

2011 - 2017Naval Nuclear Lab, KAPL Schenectady, NY **Mechanical Engineer**

- Designed a pressure boundary part for nuclear applications
- Specified complex drawings with GD&T, welds, and NDT requirements
- Analyzed (FEA, Matlab, Excel) several parts of this 100+ part magneto-mechanical dynamic assembly for stress, fatigue, brittle fracture, etc., and wrote 200 page reports.

Other Experience and Projects

- Volunteer mentor mechanical design, project management, and manufacturing, First® Tech Challenge, Niskayuna, NY, 2012-2016
- Intern designed, built and tested mechanical and electrical test fixture for medical device for ears, Acclarent, Inc (a J&J company), 2011
- Intern designed, modeled and built mechanical systems for thermofluidic processes, Nanosolar, Inc, 2008-2009 (summers)
- Work study machinist & welder, Cornell University, 2009-2010
- Work study machinist, Union College, 2005-2009
- Masters Project Designed and programmed a genetic optimization algorithm to control a physical system, Cornell University, 2010
- Senior Project Designed, manufactured, and analyzed a robotic dragonfly using dynamic similarity, Union College, 2009
- Optional High School Senior Project Designed and built a working AM radio transmitter, San Francisco Waldorf High School, 2005