

Kathryn (Katie) Q. Shea

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Education

Imperial College London | London, UK

Fall 2015–Fall 2016

MSc Computer Science

- **Provisional Results:** Distinction (1st)
- **Non-Core Courses:** Intelligent Data & Probabilistic Inference (Bayesian Inference), Databases, Robotics.
- **Group Project:** Worked in a team of 6 to create an application that will help aid workers at Field Ready 3D-print pipe fittings. Takes parameter inputs and outputs an STL file for printing, allowing villages to have access to water faster.
- **Thesis:** Creating software to analyze MRI images for sizing stent grafts in patients with aortic aneurisms.

Rensselaer Polytechnic Institute (RPI) | Troy, NY

Fall 2009–Spring 2013

B.S. Biomedical Engineering & Mechanical Engineering

- GPA: 3.5/4.0, Dean's List
- BME Capstone "Best Design" 2013
- Studied Abroad at University College London (Fall 2011 – Spring 2012)

Experience

Boeing Phantom Works Systems & Design Engineer | El Segundo, CA

February 2015–August 2015

- Created new mechanical technologies and improved on existing ones within the R&D group.
- Programmed custom-made RF radios to send and receive data.
- Wrote software to automatically analyze interferogram images of lenses to characterize their surfaces.

Boeing Structures Stress Analyst | El Segundo, CA

April 2014–February 2015

- Analyzed stress data and created stress models for satellite production tools using CSW, Patran, and Nastran.

Boeing Satellite Solar Array Engineer | El Segundo, CA

July 2013–April 2014

- Organized and planned the satellite solar wing manufacturing processes and addressed anomalies.
- Worked with lean group to increase manufacturing efficiency.

RPI Undergraduate Researcher | Troy, NY

Spring 2011–Spring 2013

- Researched tendon fiber engineering and used a Teosys laser to fabricate channels for optimal fiber growth.
- Ran various mechanical tests to characterize the fibers.

Gulfstream Aerospace Corporation Intern | Savannah, GA

Summer 2012

- Worked in the Human Factors department on several projects regarding the main landing gear assembly, the cabin management system interface (GUI), and a pilot evaluation on flight deck controls.

Skills, Certifications

- **Coding Languages:** C++, Python, Java, SQL, HTML, CSS
- **Foreign Languages:** Moderate French
- **Security Clearance:** Current SSBI, May 2014

Extracurricular Activities

- London Academicals 1st XI Field Hockey Team (2015-2016)
- MSc Course Representative (2015 – 2016)
- Society of Women Engineers (SWE) Member (2013 – Present)
- **Hobbies:** playing and recording music, teaching sailing, swing dancing, bouldering, and traveling.