

# Hilary Anna Johnson

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## EDUCATION

2011-2015	<b>THAYER SCHOOL OF ENGINEERING</b> <i>Bachelor of Engineering, Mechanical Concentration   3.38 GPA</i> Fundamentals of Engineering (FE) Exam Certificate, SolidWorks Professional Certificate Coursework: Computer-Aided Mechanical Engineering Design, Machine Engineering, Microprocessors, Structural Analysis, Statistics, Energy Utilization, Engineering Design Methodology, Differential Equations	Hanover, NH
2011-2015	<b>DARTMOUTH COLLEGE</b> <i>Bachelor of Arts, Engineering Sciences   3.28 GPA</i> Coursework: Product Design, Solid Mechanics, Systems, Digital Electronics, Linear Algebra, Intro to CS Development Economics, International Development, History of Modern Healthcare, Human Biology	Hanover, NH
2009-2011	<b>UNITED WORLD COLLEGE IN MOSTAR</b> International Baccalaureate Diploma, <i>June 2011</i>	Mostar, Bosnia and Herzegovina

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## EXPERIENCE

July 2015 - Present	<b>Thayer School of Engineering</b> <i>Design Fellow</i> <ul style="list-style-type: none"><li>Collaborating with professors on 5 fall term, design oriented courses &amp; 3 workshops</li><li>Advising 4 student teams on design projects, working with students on challenges daily</li><li>Finishing production/prototyping techniques through creative projects in the shop</li><li>Initiating project to develop wearable sensors for cardiac impedance sensing</li><li>Developed and taught human centered design course for Ghanaian teenage girls partnered with a local NGO. Funded by \$10,000 Davis Projects for Peace grant.</li></ul>	Hanover, NH
June-Aug 2014	<b>Insight Product Development LLC</b> <i>Engineering and Design Intern</i> <ul style="list-style-type: none"><li>Developed electromechanical architecture for a next generation bench top laboratory diagnostic device, applied top-down CAD modeling techniques</li><li>Contributed to design of four early stage medical device prototypes in the lab</li><li>Conducted DFMA analysis for injection molded parts and developed product confidence testing based on client specifications</li></ul>	Chicago, IL
Aug 2013-present	<b>Eleazar Wheelock Society</b> <i>Student Director and Board Member</i> <ul style="list-style-type: none"><li>Managed \$110,000 annual budget, and hired administrator for operations</li><li>Directed core initiatives, alumni relations, and talent development</li><li>Organized the 2014 &amp; 2015 Wheelock Conference, delivered opening address</li><li>Coordinated 11 panels, 30 panelists, and 400 faculty, alumni and student attendees</li></ul>	Hanover, NH
Feb-May 2014	<b>Dartmouth Institute for Security Technology and Society</b> <i>Product and Interaction Designer, Amulet Project</i> <ul style="list-style-type: none"><li>Designed UI/UX for mHealth device as a hub for body-area sensor networks</li><li>Prototyped wearable wristband using 3D printing and injection molding</li></ul>	Hanover, NH
Sept 2012-June 2013	<b>Dartmouth Biomedical Engineering Center</b> <i>Research Assistant</i> <ul style="list-style-type: none"><li>Conducted materials research on the oxidation pathway of polyethylene</li></ul>	Hanover, NH
Summers 2011 & 2012	<b>Red Dog Camp</b> <i>Commercial Salmon Fisher</i> <ul style="list-style-type: none"><li>Worked as a set-net crew-hand during 16 hour work days</li><li>Designed &amp; completed mechanical projects on land: renovated old bunkhouse, wind-turbine water pump and grey water filtration system</li></ul>	Bristol Bay, AK

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## SKILLS

- Applications:** Certified SolidWorks Professional including competency in mold tools, surfacing, sheet metal and simulations, Pro-E, SketchUp, Photoshop, Microsoft Office Suite
- Production:** CNC milling, injection molding, mill, lathe, 3D printing, laser cutting, MIG welding
- Programming:** C, C++, Matlab, Processing, Arduino, Assembly
- Languages:** conversational Spanish, basic Serbo-Croatian

I love romping outdoors, mountaineering, reading, swing dancing, improv, working on teams & exploring new cultures.