

Hilary Anna Johnson

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EDUCATION

- 2011-present **DARTMOUTH COLLEGE** Hanover, NH
Candidate for Bachelor of Arts: Engineering Sciences & Global Health Certificate, June 2015
Coursework: Development Economics, International Development, Contemporary Architecture, History of Modern Healthcare Human Biology
Honors: Dickey Great Issues Scholar and Mentor, Kramer Prize Recipient
- 2011-present **THAYER SCHOOL OF ENGINEERING** Hanover, NH
Candidate for Bachelor of Engineering, Mechanical Concentration, June 2015
Coursework: Solid Mechanics, Structural Analysis, Systems, Statistics, Digital Electronics, Product Design, Energy Utilization, Engineering Design Methodology, Machine Engineering
- 2009-2011 **UNITED WORLD COLLEGE IN MOSTAR** Mostar, Bosnia and Herzegovina
International Baccalaureate Diploma, *June 2011*
Facilitator at the Pearson Seminar for Youth Leadership, 2010, Victoria, B.C.,

EXPERIENCE

- June-Aug 2014 **Insight Product Development LLC** Chicago, IL
Engineering and Design Intern
- Developed electromechanical architecture for a next gen bench top laboratory diagnostic device, applied top-down CAD modeling techniques
 - Contributed to design of four early stage medical device prototypes in the lab
 - Conducted DFMA analysis for injection molded parts and developed product confidence testing based on client specifications
- Aug 2013-present **Eleazar Wheelock Society** Hanover, NH
Student Director and Board Member
- Managed \$110,000 annual budget, and hired administrator for operations
 - Directed core initiatives, alumni relations, and talent development
 - Organized the 2014 Wheelock Conference, delivered opening address
 - Coordinated 11 panels, with over 30 panelists, and 400 faculty, alumni and student attendees
 - Developed 25 Waterman Institute classes, engaged 15 professors, and reached 180 individuals regarding core principles of faith, reason, and vocation
- Feb-May 2014 **Dartmouth Institute for Security Technology and Society** Hanover, NH
Product and Interaction Designer, Amulet Project
- Designed UI/UX for mHealth device as a hub for body-area sensor networks
 - Prototyped wearable wristband using 3D printing and injection molding
 - Integrated custom hardware with wristband for NSF presentation and was competitively selected for computational jewelry art installation at Dartmouth
- Sept 2012-June 2013 **Dartmouth Biomedical Engineering Center** Hanover, NH
Research Assistant
- Conducted materials research on the oxidation pathway of polyethylene
- Summers 2011 & 2012 **Red Dog Camp** Bristol Bay, AK
Commercial Salmon Fisher
- Worked as a set-net crew-hand during 16 hour work days
 - Designed & completed mechanical projects on land: renovated old bunkhouse, wind-turbine water pump and grey water filtration system

SKILLS

- **Applications:** SolidWorks Associate, Pro-E, Photoshop, Microsoft Office Suite
- **Production:** Injection molding, mill, lathe, 3D printing, laser cutting
- **Programming:** C, C++, Matlab, Processing, Arduino, Assembly
- **Languages:** conversational Spanish, basic Serbo-Croatian