

# Ethan Chapman Bagley

**ADDRESS:** 33 Sterling St., Somerville, MA 02144 **EMAIL:** [ethan.bagley@gmail.com](mailto:ethan.bagley@gmail.com) **PHONE:** (617) 501-4094

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## SUMMARY

Passionate entrepreneur with a design and quality engineering background, interested in a position of leadership that combines technical expertise, interpersonal skills, and opportunities to create, collaborate, and innovate. Interested in a variety of fields inside and outside of consumer durable goods.

## PRODUCTS, PROFICIENCIES, AND CERTIFICATIONS

- Products – iRobot: Scooba 230, Scooba 300-series, Looj. Keurig – Vue Brewing Platform.
- Certifications – Six Sigma Green Belt.
- Problem Solving Identification and Tools – 5W1H, PDCA Cycles, Ishikawa, Pareto, etc.
- Solid-Model Design Tools – Intermediate SolidWorks skills, some experience with Pro/E, and AutoCAD.
- Software – Proficient with Microsoft Office Suite.
- Languages – Basic (beginner-level) comprehension of Chinese (Mandarin), French, Russian, and Spanish.
- Leadership – Boston Dragon Boat Festival: Social media organizer, Team captain, Northeastern IDEA: Coach.

## PROFESSIONAL EXPERIENCE

### Keurig

Reading, MA

2010 –  
2012 –  
2010 – 2012

Senior Quality Engineer

Senior Mechanical Engineer

- Supported Vue platform development from concept to production, including multiple visits to China-based CMs.
- Created flexible analysis tools to aid cross-functional teams in identification, tracking, and analysis of information.
- Improved design of individual parts in order to address potential failure modes identified through product teardowns, external/internal testing, and FMEA analysis.
- Assisted in shift from back-end quality (CM-facing) to front-end quality (NPD) including industry standard testing.
- Implemented a greening initiative to remove Styrofoam from brewer packaging (currently in pilot at CM).
- Developed an internal innovation process to drive employees to expose and develop their ideas within Keurig.
- Developed, produced, and analyzed cross-competency organizational intelligence study for senior management.
- Managed and mentored multiple program resources from a design and quality perspective.
- Facilitated cross-functional brainstorming sessions to tackle high-priority issues.

### iRobot

Bedford, MA

2006 – 2010

Lead Quality Engineer – Wet Floor Care Products – Home Robotics Division

- Supported product development from concept to production, including frequent trips to HK and China.
- Conducted milestone meetings including FMEA reviews, design reviews, and regular status update meetings.
- Managed multiple lab spaces including technology, fixturing, and personnel.
- Developed CAPA process for division, resulting in higher efficiency of defect information tracking, root-cause analysis, verification of corrective actions, and forward-loaded defect identification.
- Provided statistical analysis for test units, providing higher functional yield of subassemblies and full assemblies.
- Led introduction of an OSHA compliance system and supporting infrastructure.

### AMETEK Aerospace and Defense

Wilmington, MA

2003 – 2006

Design Engineer – Sensors and Monitoring Systems

- Collaborated with clients to ensure smooth project development.
- Interacted directly with purchasing and vendors to ensure compliance to design.
- Green Belt project reduced floor stock scrap, with pilot realizing \$13k in savings in the first year of implementation.

## EDUCATION

### Northeastern University

Boston, MA

2013 (Anticipated)

Master of Business Administration, High-Tech Focus

### Northeastern University

Boston, MA

2010

Master of Science in Mechanical Engineering, Engineering Management Concentration

### Rochester Institute of Technology

Rochester, NY

2003

Bachelor of Science in Mechanical Engineering, Aerospace Concentration (Minor in Russian Culture / Language)

## ACTIVITIES

CPR/AED/First Aid Certified, frequent volunteer, photographer, maker, tinkerer, and cook.