

Mario Bollini

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1A Watson St. Somerville, MA 02144

EDUCATION

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CAMBRIDGE, MA

Master of Science in Mechanical Engineering, June 2012. GPA 4.8/5.0

Awarded a NDSEG Fellowship to research controls and motion planning in semistructured environments. Courses: MIMO and underactuated controls, finite element analysis, precision machine design.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

CAMBRIDGE, MA

Bachelor of Science in Mechanical Engineering, June 2009. GPA 4.4/5.0 (Mech E. 4.6/5.0)

Combined mechanical design and controls curriculum with electronics and software engineering courses to develop skills for robotics and systems engineering projects. Lab instructor for product design courses.

EXPERIENCE

GLOBAL RESEARCH INNOVATION & TECHNOLOGY

CAMBRIDGE, MA 2012-PRESENT

Co-founder, Chief Technology Officer: Overseeing production and commercialization of the Leveraged Freedom Chair, a novel lever powered wheelchair for developing countries. Scaling up manufacturing in India, implementing quality control framework, and organizing logistics for international distribution. Participating in business planning and fundraising through the MassChallenge start-up incubator.

BATTELLE MEMORIAL INSTITUTE

CAMBRIDGE, MA

2012-PRESENT

Manufacturing Engineer Associate: Supporting internal R&D efforts by advancing novel manufacturing strategies. Specializing in network orchestration to accomplish technology and product development.

VECNA TECHNOLOGIES

CAMBRIDGE, MA

2009-2010

Robotics Engineer: Designed and implemented components of the distributed control system for the BEAR anthropomorphic rescue robot. Programmed CAN network of embedded devices for low-level joint control. Performed mechanical, software, and control system design to support projects and proposals in robotics group. Designed and implemented framework for high level task-based planning system for BEAR and indoor delivery platform. Wrote awarded proposal for pneumatic hammer chisel for DOD SBIR program, successfully completed Phase I implementation.

LEADERSHIP

MIT MOBILITY LAB

CAMBRIDGE, MA

SPRING 2010

Head Instructor: for the undergraduate course Wheelchair Design in Developing Countries, a project based class that taught product design for the developing world. Wrote and delivered lectures and guided student projects through the design process from brainstorming to proof-of-concept prototype. Communicated with international partners to manage project logistics and for prototyping trips abroad.

SKILLS

MECHANICAL: Experienced with SISO and MIMO controls design in MATLAB and mechanical design in Solidworks. Prototyping experience in machine shop. Extensive product design experience.

EECS: experienced with large software system design and distributed and embedded systems. Electronics prototyping experience. Fluent in Java, Python, embedded C for PIC devices, ROS, and CAN.

LANGUAGE: conversational French, intermediate Italian, basic Spanish, and extremely basic Swahili.

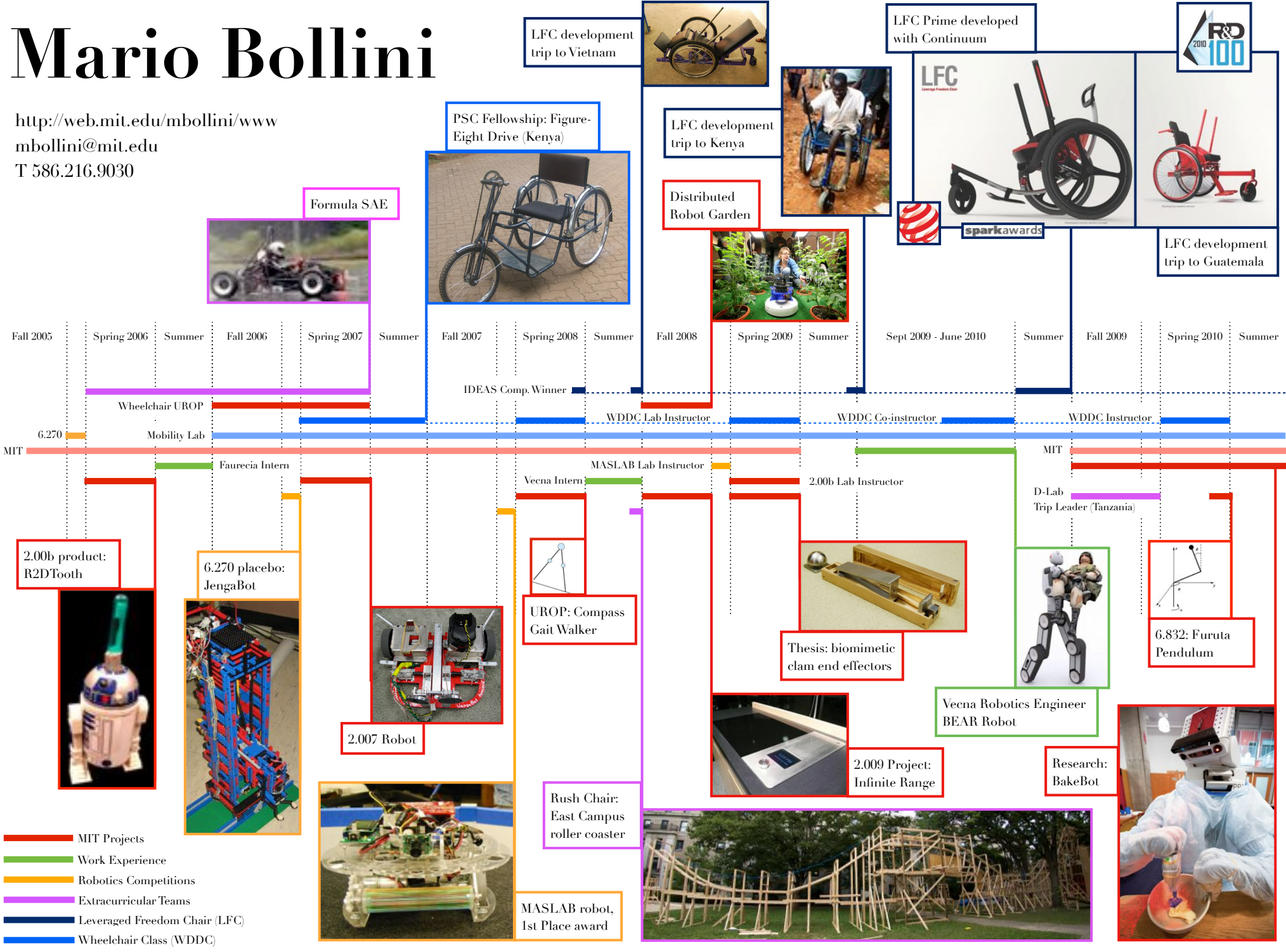
AWARDS

R&D 100 DESIGN AWARD AND EDITOR'S CHOICE AWARD 2010 for work on the Leveraged Freedom Chair (LFC). **NDSEG GRADUATE FELLOWSHIP** 2010 to work on applied robotics.

SPARK AWARD GOLD MEDAL and **RED DOT AWARD** in 2010, 2011 respectively for work on the LFC in collaboration with Continuum. **MASLAB ROBOTICS COMPETITION 2008** - First Place award.

Mario Bollini

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- MIT Projects
- Work Experience
- Robotics Competitions
- Extracurricular Teams
- Leveraged Freedom Chair (LFC)
- Wheelchair Class (WDDC)