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**Katarina Struckmann**

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## Education

- Massachusetts Institute of Technology, Cambridge, MA, Class of 2014; GPA 3.4/4.0
  - Dept. of Mechanical Engineering; Concentration: Control, Instrumentation, and Robotics
- Academy of Notre Dame High School, Tyngsboro, MA, Class of 2010

## Professional Experience

- *OpenFAB 3D Printer*, Research with the Computer Graphics Group, June 2012 – Present
  - Designing and fabricating the heating, cleaning, and feeding systems for multiple print materials of our custom multi-material 3D printer.
- *Fukushima Reactor Model*, Research with the 2.12 Staff, MIT d'Arbeloff Lab, Sept. – Nov. 2011
  - Designed and fabricated an interactive model of the destroyed Fukushima nuclear plant in Japan, including rapid prototyping with a 3D Printer and modeling with laser-cut components.
- *CityCar*, Research with the Changing Places Group, MIT Media Lab, June – August 2011
  - Designed and fabricated mechanical components of a half-scale CityCar, a two-person electric vehicle; verified chassis components with FEA; worked with motor controllers and set up a wireless interface for communication; created molds and then carbon fiber components of the chassis.
- *Formula SAE Drivetrain*, Research with the MIT Motorsports Team, January 2011
  - Fabricated and ordered components of the drivetrain of a Formula-style racecar; fabricated components of the car frame; created a carbon fiber composite floor.

## Technical Experience and Skills

**Programs:** CATIA, SolidWorks, Microsoft Excel, Microsoft Powerpoint, Microsoft Word

**Programming Languages:** Common Lisp, Python, Wiring (Arduino & Processing)

**Proficiencies:** Laser Cutter, 3D Printer, Waterjet, Mill, Lathe, Bandsaw, Soldering Iron

## Activities

- MIT Motorsports: Formula SAE Team, September 2010 to Present
  - 2010: Fabricated and ordered components of the chassis and drivetrain
  - 2011: Leading Logistics and working with the Public Relations Group on Sponsor Relations
- FIRST Robotics, Hollis-Brookline High School, 2006 - 2010: Coach, 2008-10; Co-CEO, 2009-10