

# BRENDAN BOYLE

## address

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## Education

Mounds Park Academy — Graduating class of 2014.

- Honor roll recipient for all upper school grades.
- Honors Pre-Calculus, Biology, Chemistry, 12 years of Spanish, and 7 years of Band (Trombone)
- Six Years of *FIRST* Robotics (Four years of FRC, Two as Captain).

## Experience

**Lead IT Coordinator for Erickson Marine** Hastings, Minnesota 2011-Present

Installed and currently maintain the computers and network for this family owned marine dealership.

**Summer Teacher for Mounds Park Academy** St. Paul, Minnesota 2009-2011

Worked closely with teachers to design a compelling curriculum for a class on website development which taught middle and upper school students how to effectively make their own websites using the increasingly relevant language of HTML. I also co-taught classes on basic computer skills, movie making, and golf.

## Skills

- Leadership - I have experience in leading various classes and co-founded two FRC Robotics teams in addition to mentoring three other *FIRST* Robotics teams.
- Programming - I am fluent in most major languages including Java (and variants), C++, Objective C, LabView, PHP, HTML.
- Design - I specialize in both Industrial and Marketing aspects of design. I have created intricate models in CAD software for real world use (Autodesk Inventor), and consulted for others regarding design efficiency and optimization. For marketing, I have designed and built four major websites from the ground up that generate over 500 page views weekly. I have also written an end to end content management system with focus on user interface optimization and user interaction. I also specialize in vector graphics design and branding.
- Critical Thinking - I use critical thinking skills to solve various engineering challenges that are presented in and out of class. I highly value the scientific process while thinking and I am always looking for ways to innovatively improve my approach to problem solving. However, critical thinking does not limit me and I am constantly required to think outside of the box in engineering challenges provided by robotics.
- Communication - One of my strongest skills that helps me succeed as a leader is my ability to communicate. I help people articulate their ideas in ways that are simple and easy for others to understand and often act as a bridge to help the aspiring engineers on our robotics get their ideas out. I take pride in public speaking and am always thrilled to answer questions on a subject about which I am passionate.

### Volunteer Activities

#### **Appalachian Service Project** Summer 2012

ASP was a week long service project in Letcher County, Kentucky where we helped people in need repair and renovate their homes.

#### **SPLAT Charity** Spring 2011

I designed and coded the website for the charity of a fellow classmate to help him get the word out to potential sponsors. It can be found at <http://splatcharity.org>.

#### **Woodbury Days** Summer 2012

I led the demonstration of last years FRC robot to a large group of spectators in my community, helping to inform and inspire them in science and technology.

### Extracurricular Activities

- Football - Two years (Lettered)
- Baseball - Six years (Lettered)
- Quizbowl - Three years (Lettered)
- Robotics - Six years (Lettered)
- Theater - Five Years (Lettered and inducted into the International Thespian Society)

### Technical Experience

- Website Development (Over 10 professional deployments)
  - HTML 5
  - CSS 3
  - PHP 5
  - JavaScript
  - Dart
  - MySQL
- Programming (3 apps with over 5,000 active users each)
  - Java (Including Android development)
  - C (Objective C and C++)
- Design (Experience with end to end solutions from initial design to the fabrication stage)
  - PTC Creo (With parametric)
  - Autodesk Inventor (with Fusion)