

# TIMOTHY R. FLYNN

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## EDUCATION

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**Master of Science:** Computer Science  
Worcester Polytechnic Institute, May 2012

**Bachelor of Science:** Robotics Engineering, Computer Science  
Worcester Polytechnic Institute, May 2011

GPA: 3.74 / 4.0

## TECHNICAL BACKGROUND

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- Programming Languages: C, C++, Java, JavaScript, HTML/XML, Scheme, Python, SQL, ANTLR
- Skills: Robotics, Control Engineering, Operating Systems, Relational Databases, Artificial Intelligence, Data Mining, Compiler Design, Computer Networks, Web Acceleration, Image Processing
- Software: Eclipse, JUnit, Microsoft Visual Studio, MATLAB, Maple, Microsoft Excel

## PROJECT WORK

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**Major Qualifying Project** (Four Course Equivalent) August 2010 – May 2011

*Sabertooth: A High Mobility Quadrupedal Robot Platform*

- Team of five developed a 300-pound quadrupedal robot capable of interacting with varying terrains
- Implemented a computer vision and planning systems for the robot to autonomously navigate its environment
- Designed and developed a Web-based control center for monitoring and manipulating the robot

**Interactive Qualifying Project** (Three Course Equivalent)

March 2010 – May 2010

*Emergency Communication Effectiveness for Deaf and Hard of Hearing in Victoria, Australia*

- Completed in a team of four students under the sponsorship of the Victorian Deaf Society in Melbourne
- Identified and evaluated problems with Victoria's emergency communications for the deaf and hard of hearing
- The team proposed revisions to that system to make it more effective

**Robotics Innovation Conference and Competition** (First Place)

November 2009

*Autonomous Shopping Cart (ASC) – Programming Lead*

- Team of four designed and constructed the ASC to assist disabled patrons in shopping centers
- Developed a system allowing the cart to safely and smoothly follow the user through a store
- An infrared beacon on the user was located with two Nintendo Wii Remotes, and an on-board PC interpreted this data and directed the cart to respond accordingly

## WORK EXPERIENCE

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**ViaSat, Inc.** – Quincy, MA

May 2012 – Present

*Software Engineer*

- Worked in the Acceleration Research and Technology division with a team responsible for developing AcceleNet, a WAN optimization and acceleration tool
- Performed sustaining tasks to investigate and fix errors and faults in AcceleNet and related products, as well as developing enhancements to the software
- Designed and developed a management interface for a Linux port of AcceleNet, responsible for handling configuration, performance monitoring, and fault management

**ViaSat, Inc.** – Quincy, MA

May 2010 – August 2010, May 2011 – August 2011

*Software Engineering Intern*

- Developed a system to launch and manage 50 – 100 virtual machines to monitor and test ViaSat products
- Ported AcceleNet to the Android platform, improving browser-based Web speed on Android by 50-60% and reducing bandwidth by 15-25%

**Worcester Polytechnic Institute** – Worcester, MA

March 2009 – May 2010

*Senior Assistant*

- Assisted professors in Introduction to Robotics and Unified Robotics courses
- Provided assistance to 80+ first- and second-year students with laboratory work, homework, and test preparation

## AWARDS AND ACHIEVEMENTS

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Tau Beta Pi Engineering Honor Society

NEWMAC Academic All-Conference Team (Two-time recipient)

Dean's List (Five-time recipient)

Eagle Scout