



# Tom Farro

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## EDUCATION

**WORCESTER POLYTECHNIC INSTITUTE (WPI) | GPA: 3.50 / 4.00**

Expected May 2017 | Worcester, MA

- BS in Robotics Engineering with a Minor in Game Design

## PROJECT HIGHLIGHTS

**HEIST NIGHT | LEAD PROGRAMMER / LEAD DESIGNER**

December 2015 - Present | Winner of "Best College Alpha" and Chosen to Showcase at BFIG

- Built system to allow players to use their mobile devices as controllers without needing to install a companion app.
- Developed C# Web Server to serve local players controller interface via browser at runtime.
- Designed custom C#-to-JavaScript networking API using JSON and WebSockets.

**HOSPITAL LOBBY ASSISTANT ROBOT | PROGRAMMER / UI DEVELOPER**

September 2016 - Present

- Conducted user studies to determine strengths and weaknesses of various UI iterations.
- Developed robust custom infrastructure that connects browser-based UI to the back-end ROS Python nodes.

**SUMMON ME SOMETHING | PROGRAMMER / DESIGNER**

January 2016 (Shipped October 2016)

- Designed and implemented randomly-generated puzzle system.
- Showcased Game at WPI's 'Touch Tomorrow' program for children to play.
- Shipped product on Halloween of 2016 for commercial release.

**WPI MAPPER | DEVELOPER TOOLS PROGRAMMER / PRODUCT OWNER**

October 2015

- Developed navigation algorithm to generate routes around campus based on map networks stored remotely.
- Designed developer tools that allowed multiple people to edit map server data without conflicts.
- Used Agile Scrum development techniques over 7 weeks with a team of 8 other students to achieve a releasable product.

## TECHNICAL SKILLS

Languages

C# • C • Python • JavaScript • HTML5 • CSS3 • Java • Ruby • SQL • RAPID

Tools and Utilities

Unity3D • Visual Studio • Git • Socket.io • jQuery • NodeJS • ROS • Linux • RobotStudio • Asana • Trello

Hardware

Soldering • Arudino • Mechanical Analysis • Circuit Analysis

## WORK EXPERIENCE

**LEGO | BRICK SPECIALIST**

June 2015 – Present | West Nyack, NY

- Delivering exceptional customer service.
- Running periodic store events to help foster building skills in children.

**CONTRACT WORK | ELECTRONIX ONLINE TUTOR**

January 2016 – July 2016 | University of Memphis

- Worked to design mock-up interfaces for tutor program.
- Constructed webpage framework.
- Worked and coordinated with a distributed team.

**EMAGINATION COMPUTER CAMPS | TECHNOLOGY COUNSELOR**

June 2014 – Aug 2014 | Waltham, MA

- Taught technical skills to children aged 7 to 17 in daily classes, including programming and game design.