

Tom Farro

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PROJECTS

HEIST NIGHT | LEAD PROGRAMMER / PROJECT HEAD

Ongoing | Winner of "Best College Alpha" and Chosen to Showcase at BFIG

- Turn-based, local multiplayer stealth tactics game.
- Players scan on-screen QR code to use mobile devices as private game screens, without needing a companion app.
- Hosts local web content server at runtime to serve controllers.
- Features custom C#-to-JavaScript WebSocket networking using JSON API.

HOSPITAL LOBBY ASSISTANT ROBOT | PROGRAMMER / UI DEVELOPER Ongoing

- Provides streamlined patient registration through on-board touchscreen UI, then assigns a room, alerts a doctor and escorts the patient there.
- Features robust custom infrastructure that connects browser-based UI to the back-end ROS Python nodes.

GALDOR: VR FORTUNE TELLER | PROGRAMMER / DESIGNER Fall 2016

- Seated Virtual Reality experience built for the GearVR.
- Features custom-built input system that uses quaternions to parse head nods or head shakes as input, instead of requiring the user to press any buttons.

WPI MAPPER | Developer Tools Programmer / Project Manager Fall 2015

- Calculated A* routes around campus based on map networks stored remotely.
- Featured developer tools that allowed multiple people to edit map server data without conflicts.
- Built in Java using Agile development techniques over 7 weeks with a randomly assigned team of 8 other students.

ROBOTIC FIREFIGHTER | MECHANICAL DESIGNER / PROGRAMMER Spring 2015

- Autonomously navigated randomized mazes to locate and extinguish a fire.
- On-board odometry equipment tracked and reported robot and fire position.
- Designed, programmed in C, and built in 7 weeks.

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

- Helped 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.

SKILLS

SOFTWARE

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

ACCOLADES

- 2013 2016 | **Dean's List** from Undergrad Admissions
- 2016 | **Best College Alpha** from MassDiGl Game Design Challenge
- 2016 | Chosen to Showcase at Boston Festival of Indie Games

EDUCATION

WORCESTER POLYTECHNIC INSTITUTE (WPI)

BS in Robotics Engineering Minor in Game Design Expected May 2017 | GPA: 3.50

COURSEWORK COMPUTER SCIENCE

Object Oriented Design Software Engineering Artificial Intelligence Webware

GAME DESIGN

Game Design Process Storytelling in Interactive Media Novel Controllers and Interfaces

ROBOTICS

Digital Circuit Design Static and Dynamic Systems Robotic Sensing and Navigation Industrial Robotics Controls Engineering Embedded Systems