### **EDUCATION**

# WORCESTER POLYTECHNIC INSTITUTE (WPI)

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

### **COURSEWORK**

#### **ROBOTICS**

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

#### **COMPUTER SCIENCE**

Object Oriented Design Software Engineering Artificial Intelligence Webware

#### **GAME DESIGN**

Game Design Process Storytelling in Interactive Media Novel Controllers and Interfaces

## SKILLS SOFTWARE

Languages:

C# • C • Java • HTML5

CSS3 • JavaScript • Python

RAPID • Matlab

Tools and Utilities:

ROS • Linux • Git

Visual Studio • Unity3D

#### **HARDWARE**

Soldering • Arudino Mechanical Analysis Circuit Analysis

## **ACCOLADES**

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

#### **PROJECTS**

#### **HEIST NIGHT** | LEAD PROGRAMMER / PROJECT HEAD

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

- Digital board game featuring stealth mechanics only possible with a video game.
- Locally hosts HTML5 content server at game runtime.
- Players scan on-screen QR code to connect with mobile devices, which serve as private game screens without needing a companion app.
- Features custom Unity3D-to-HTML5 WebSocket networked communications.

## **INTERACTIVE SEGWAY ROBOT** | PROGRAMMER / UI DEVELOPER Ongoing

- Provide automated registration for walk-in patients and/or visitors through an intuitive onboard UI that interfaces directly with ROS.
- Connect with hospital database to automatically assign patient a room, escort them there, and alert a doctor to tend to them.

## **GALDOR: VR FORTUNE TELLER** | PROGRAMMER / DESIGNER Fall 2016

- Seated Virtual Reality experience built for the GearVR in under 24 hours
- Features custom-built input system that parses 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.
- Programmed in 7 weeks with a randomly assigned team of 9 students, using Agile development techniques.

## **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 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.