Belal Said

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Education

Rutgers University *2015 - Present*

BE, Mechanical Engineering *Expected Graduation: May 2019*

BA, Computer Science *GPA: 3.85/4.00*

Technical Skills

- *C#, C/C++, CLI, Java, Javascript, PHP, HTML, Bash*
- *Solidworks, Matlab*
- *Visual Studio, Eclipse*
- *AJAX, SQL, HTML*

Experience

Quadcopter Communication under *Professor Jingang Yi* *10/2015 - 3/2016*

- Worked with Engineering graduate student to build and design quadcopters
- Programmed quadcopter in C++ and PX4 Autopilot to communicate with room sensors

SteerSuite under *Professor Mubassir Kappadia* *6/2016 - 11/2016*

- Coordinated with a team of PhD students to optimize SteerSuite, a crowd simulator written in C++
- Developed an algorithm that outputs the optimal evacuation plan for a floor in a building
- Built a C# plugin to incorporate SteerSuite into Autodesk Revit

Projects

Orkestra at **HackPrinceton Spring 2014**, top 3

- Led a team to develop a google glass application to control house appliances through Electric Imp

PrePark at **PennApps 2014**, won **Internet Of Things Award**

- Used magnetic readers and a phone app to manage and help find open parking spots

C# Raytracer

- Built a raytracer from scratch that renders on a web server based on the book *Physically Based Rendering* by Matt Pharr.

Extracurriculars

IEEE - Robotics Projects

- Built a portable printer using an arduino and a Canon cartridge. Used C to communicate with the cartridge using company specified commands to trick the cartridge into acting like it's in a printer.
- PacBot for Harvard University PacBot Competition - built an algorithm for the bot in python to navigate a maze and avoid the ghosts. The robot was designed from scratch with the body 3D printed and a custom PCB circuit that's controlled by Raspberry Pi Zero.

ASME - Robotics Team

- Leader of programming team. Designed the main software that runs on a Raspberry Pi in python. The robot had to perform complicated tasks such as climbing stairs, hitting a golf ball, and launching a tennis ball.