

# Belal Said

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## EDUCATION

### RUTGERS UNIVERSITY

#### BS IN COMPUTER SCIENCE

Grad. May 2018 | New Brunswick, NJ  
Conc. in Software Engineering  
School of Engineering  
Dean's List (All Semesters)  
GPA: 3.85 / 4.0

### JOHN P. STEVENS HIGH SCHOOL

Grad. June 2014 | Edison, NJ

## LINKS

Github:// [belalmksaid](#)  
LinkedIn:// [belalmsaid](#)

## COURSEWORK

### UNDERGRADUATE

Computer Architecture  
Data Structures  
Artificial Intelligence  
Computer Modeling  
Probability Theory  
Discrete Structures  
Advanced Engineering Calc

## SKILLS

### PROGRAMMING

Java • C/C++ • C# • Matlab  
Python • Javascript • CSS • PHP  
Assembly  
Environments/Platforms:  
AS3 • Android • MySQL • Node.js  
Arduino • Raspberry Pi • AJAX

### OTHER

Solidworks/CAD • Machineshop training

## PROJECTS

### PACMAN AI LAB

Created an AI that learns how to play Pacman after multiple generations using a genetic algorithm

### C# RAYTRACER

Developed a raytracer from scratch based on the book *Physically Based Rendering* by Matt Pharr.

## EXPERIENCE

### WAEC | SOFTWARE ENGINEERING INTERN

June 2016 – Sep 2016 | Washington, DC

- WAEC is a startup that works on creating profitable automated drone delivery systems
- Programmed the entire system for air highways and programmed the drones to move in them using a GPS System

### ALLSTATE INSURANCE | DATA ANALYST

Jun 2014 – Sep 2014 | Edison, NJ

- Wrote a software to extract customer data and to determine which customers are more likely to buy AllState insurance

## RESEARCH

### ARESTY RESEARCH PROGRAM | UNDERGRAD RESEARCHER

Jun 2015 – Present | New Brunswick, NJ

- Coordinated with a team of PhD students to optimize and document SteerSuite, a crowd simulator written in C++
- Developed an algorithm that outputs the optimal evacuation plan for a floor in a building
- Designed a C# plugin for Autodesk Revit to incorporate SteerSuite and make it user friendly

### MECHATRONICS LAB | UNDERGRAD RESEARCHER

Oct 2015 – Mar 2016 | New Brunswick, NJ

- Worked with Engineering graduate student to build and design quadcopters.
- Programmed quadcopter in C++ and PX4 Autopilot to communicate with room sensors
- The aim of the project is to be able to coordinate between quadcopters and rooms sensors to make complex maneuvers in the air

## EXTRACURRICULARS

### IEEE | PACBOT TEAM CAPTAIN

Sep 2015 – Present | Rutgers University

- Designed and programmed a robot that navigates a maze and avoids ghostBots.
- The robot was designed from scratch with the body 3D printed and an algorithm written in C++ for Teensyduino 3.1 microcontroller

### ASME | ROBOTICS TEAM CAPTAIN

Sep 2015 – Present | Rutgers University

- Leader of programming team. Designed a robot that had to climb stairs, hit a golf ball, and launch a tennis ball
- The robot was modeled on Solidworks and built using Rutgers' machine shop

### INTERNATIONAL SANITATION ORGANIZATION | VOLUNTEER

Jun 2013 – Present | Edison, NJ

Helped fundraise for ISO, a legal 501c3 certified non-governmental organization, which has collaborated with UN recognized organizations to bring fresh water to thousands of people in Africa