

# Cristobal Manzanares

Software Engineer

Houston, TX | (281) 414 - 6319

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## Skills

Languages: JavaScript, Python, HTML5, CSS, Matlab

Frameworks: React/Redux, Bootstrap

Other: Node.js, Sequelize, PostgreSQL, Git, Visual Studio Code

## Software Development Projects

Camping Vibes | [github.com/Cristobal3/CampingVibes](https://github.com/Cristobal3/CampingVibes) March 2018

- Information site that provides the nearest camping sites based on geolocation along with camp information, and additional links to helpful sites
- Built with HTML5, CSS, Javascript, Bootstrap, jQuery

Blackjack | [github.com/Cristobal3/blackjack](https://github.com/Cristobal3/blackjack) February 2018

- The classic card game Blackjack, featuring the ability for the player to hit, and stand
- Built with HTML5, CSS, Bootstrap, JavaScript, and jQuery

Robot-arm Simulation | [github.com/Cristobal3/Matlab/Final\\_Manzanares\\_Flores.m](https://github.com/Cristobal3/Matlab/Final_Manzanares_Flores.m) May 2017

- Simulation program animating the 3-D movement of a three jointed robot arm
- Capable of taking inputs for applied forces on various locations and calculating physical response
- Built with MATLAB

## Professional Experience

Houston Building Permits | CAD Designer Assistant | Houston, TX September 2017 – December 2016

- Drafted site and floor plans for residential and commercial buildings using AutoCAD
- Performed on-site measurements and converted collected data into site plans
- Routinely updated drafting standards to meet current city criteria
- Operated under Trello for workflow

Bucknell University-ExOne | 3D Printer Powder Delivery System | Lewisburg, PA August 2016 - May 2017

- Engaged in extensive iterative design including prototyping, testing & machining
- Utilized vibrational studies with SolidWorks FEA for troubleshooting and design work
- Designed electrical control system to drive and synchronize actuator motors
- Created bulk solid stress simulations in MATLAB
- Worked with client to communicate project updates and developments
- Operated using Scrum methodology

Bucknell University | Research Assistant | Lewisburg, PA September 2017 – December 2016

- Developed custom data acquisition structures with software and hardware setups
- Recorded and analyzed emission data for a small diesel engine using MATLAB and Labview
- Presented findings to alumni, professors, and students

## Education

DigitalCrafts | Full-Stack Immersive Program | Houston, TX February 2018 – May 2018

- Immersive software engineering training course covering full-stack development including, but not limited to JavaScript, Python

Bucknell University | B.S. in Mechanical Engineering | Lewisburg, PA Fall 2013 – Spring 2017