

Cristobal Manzanares

Houston, TX | (281) 414 - 6319

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Texas EIT: 60294

Skills

Languages: JavaScript, Java, Python, HTML5, CSS, Matlab

Frameworks: React/Redux, Bootstrap, Express

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

Software Development Projects

Coffee Break | github.com/Cristobal3/CoffeeBreak

May 2018

- Android app designed as both a note taker and as a news source
- Conducts API calls for recent US news and allows for a news search in specific countries
- Note taking is available through the "Reminders" page that allows for storage, edits, and deletion of data. Messages stored also retain and show their creation/edited date
- Built with Java, Android Studio, SQLite

ThermoPal | github.com/Cristobal3/ThermoPal

May 2018

- Work aid app for engineering students and professionals
- Assists users by performing linear interpolation calculations on saturated water properties commonly used in energy calculations for various projects of all scales
- Built with HTML5, CSS, Javascript, React, Express, Node, PostgreSQL, and Sequelize

Robot-arm Simulation | 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 | Internship | CAD Designer Assistant | Houston, TX

Sep. 2017 – Dec. 2017

- 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

Bucknell University-ExOne | 3D Printer Powder Delivery System | Lewisburg, PA |

Aug. 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

June 2015 – Aug. 2015

- 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

Feb. 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