

# Eriq C. Lucero

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## Education & Honors

**University of Illinois at Urbana-Champaign**

**December 2020**

- **Bachelor of Science in Systems Engineering & Design**
- Field Specialization: Internet of Things

GPA: 3.12/4.00

**Saint Ignatius College Prep**

**May 2016**

- Graduated with Honors College Prep Diploma

GPA: 3.58/4.00

## Relevant Coursework

Structural Design

Thermodynamics

Data Analysis

Control Systems

Fluid Mechanics

Mechatronics

Deterministic Models in Optimization

Solid Mechanics

Intro to Comp Sci

## Work Experience

**Langan – A Premier Engineering & Environmental Consulting Firm**

**Summer 2016**

*Engineering Intern/ Construction Management*

Oakland, CA

- Learned engineering techniques that were melded with civil engineering aspects
- Developed in field experience analyzing soil contents and how to build a base utilizing that information
- Analyzed with civil engineers and architects with follow-up evaluations using CAD and other programs

**Interim Healthcare**

**Summer 2014/15**

*Healthcare Assistant*

Chicago, IL

- Arranged events with managers to ensure satisfaction with all members
- Communicated with faculty and staff members via email to advance department goals
- Managed IT during overloaded hours or when managers were occupied

## Organizations

**Latino/as in Computer Science**

**January 2017 - Present**

*Secretary*

Champaign, IL

- Latino interest organization designed to share ideas for projects
- Creating organization's website: latinxcs.illinois.edu to publicize and share among
- Exercised Java knowledge by developing different games

## Past and Current Projects

**TAM 212 Introductory Dynamics**

**Spring 2019**

- Designed and constructed a ping pong launcher with the goal of being able to launch a ping pong ball into a typical red solo cup at varying distances and heights.
- Created an Excel sheet to help account for varying factors like air resistance, drag, gravity.
- Created a graph plot that showed the ball's path based on launch speed and launch angle, while also accounting for the varying factors.

**Ardi Automation 2.0**

**2019**

- Implement Amazon Alexa API or Apple HomeKit to voice activate everything connected to the Arduinos
- Included Arduino controlled security cameras and alarm system

**HackIllinois - IPFS Mobile**

**February 2018**

- Developed Mobile App that uses IPFS Protocol instead of HTTP
- Implemented the ability to use a mobile phone to be a file host for IPFS: a more decentralized network
- Prepared for the integration of FileCoin- Blockchain technology that uses storage space for profit

**Ardi AutomationG**

**2017**

- Developed personal project using multiple Arduino Microcontrollers to control a house's garage door and lights running via online server
- Built Android App to connect to home server and for ease of access to family

## Skills & Competencies

**Languages:** French (conversational), Spanish (conversational), English (fluent)

**Software Languages:** Java, HTML, Java (Mobile Dev), Python

**Applications:** MATLAB, Inventor, ANSYS

**Public Speaking:** Highly skilled and well versed in communications