

# Giovanni Joel Zavalza

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## **Summary:**

Engineering student with focus in a computer science degree from Urbana Champaign that has demonstrated capabilities in both leadership and communication. Experience in computer engineering while striving to develop skills in the computer science field.

## **Education:**

University of Illinois at Urbana-Champaign

Urbana, IL

Bachelor of Computer Science

May 2025

- Completing in partnership with College of DuPage through 2+2 Engineering Pathways Program

College of DuPage

Glen Ellyn, IL

Associate in Engineering Science

May 2023

Presidential Scholar and Honor Student Advisor with GPA: 3.72/4.00

Currently taking Calculus 2, Chemistry 2, English 2, Physics 1

## **Technical Skills:**

- Python experience up until introduction to OOP and GUI
- Programming a robot for NASA competition through ROS software using Python code and Linux Ubuntu terminal
- Knowledgeable in Unreal Engine's blueprint visual scripting comprised in C++
- Google Software including Google Drive, Google Mail, and Google office: sheets, slides, docs
- Microsoft Office products including Excel, PowerPoint, and Word

## **Internship Experience:**

West Chicago Community High School

West Chicago, IL

Technical Support Intern

August 2017-June 2018

- Diagnosed and repaired broken Chromebooks for students and staff of District 94
- Leveraged problem solving skills to fix computers at lowest possible price for customers
- Managed customer service desk to provide customer with best experience possible by using cooperative decision making skills
- Rotated through assigned jobs to ensure room was working at its most efficient peak
- Led group projects involving repair of student Chromebooks

## **Relevant Activities:**

College of DuPage

Glen Ellyn, IL

Game Development Club, Member

August 2021-Present

- Working with art, audio, and design team to create a first-person horror game on the Unreal Engine using C++ Blueprint
- Creating line channels/ inventory system, health system, and stamina system through interfaces, collision overlaps, parent and child blueprints, widgets, and variables
- Teaching other programmers unfamiliar with Unreal Engine 4 the basics of the engine and assigned tasks based on their coding experience

- Applying animations to multiple actors/pawns through humanoid skeletal rigs
- Making UI elements through Blueprint Widgets such as crosshair, health display, and inventory

College of DuPage

Glen Ellyn, IL

Programming Club, Cofounder

August 2021-Present

- Co-founded the programming club at College of DuPage by contacting computer scientists, programmers, and software developers within the school to sponsor and advise the club
- Promoting Computer Science within College of DuPage and recruited members to assign projects revolved around real world applications of coding skills outside of simple and situational class coding projects and assignments
- Presenting online coding opportunities to allow members to further expand skills in programming

Engineering and Robotics Club, Member

August 2021-Present

- Collaborating with a mechanical and electrical engineering team to create a robot that can move, dig, and deposit for NASA's Lunar Robotics Competition
- Created a virtual machine to hold Linux Ubuntu Bionic Beaver
- Initiating necessary projects to accomplish overarching goal such as network configuring a Raspberry Pi to a laptop holding Python code to allow an Xbox controller to create wireless inputs that will drive the robot
- Coding in Python to allow the robot to move with tank steering through ROS nodes and topics
- Developing AI detection through camera lens via GitHub repositories and Python modifications
- Currently creating a game based on colonizing the moon in Unreal Engine 5 to promote NASA's Artemis Program for outreach within the competition's requirements to promote STEM, space exploration and eventually space colonization

### **Leadership:**

College of DuPage

Glen Ellyn, IL

- Programming Club, Officer
- Math Club, Officer

December 2021-Ongoing

August 2021-Ongoing

West Chicago Community High School

West Chicago, IL

- Track Captain
- Football Captain

January 2020-June 2021

August 2017