

# Dominic Catania

## Engineering Student

Highly motivated college freshman seeking to collaborate with and inspire others by and through my passion, purpose and vision.



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Fort Worth



domc18.github.io/Porty



github.com/DomC18

## SOFT SKILLS

Leadership Experience

Problem Solving

Communication Skills

Adaptive Thinking

Active Listening

Personable & Friendly

## TECH SKILLS

HTML

Full Professional Proficiency

CSS

Full Professional Proficiency

Python

Full Professional Proficiency

Java

Full Professional Proficiency

Django

Full Professional Proficiency

## INTERESTS

Coding

Soccer

Personal Fitness

Robotics

Pickleball

## EDUCATION

### High School Diploma Nolan Catholic High School

08/2020 - 05/2024

GPA: 101

Accelerated/Honors/AP Curriculum

- Robotics Captain, Driver, & Lead Programmer
- Student House Captain
- Ambassadors Program
- Math Honors Society President
- National Honor Society
- Altar Server / Eucharistic Minister

## FEATURED PROJECTS

### Vigil (07/2024 - 08/ 2024)

- Designed and programmed web application using Django where users can set up configurations for their FRC robot and dynamically analyze data using Plotly.

### FlowNote (06/2024 - 07/2024)

- Python desktop application designed to assist users in deconstructing and modularizing large-scale projects through a calendar-tree relationship using tkinter GUI.

### Apothiki (05/2024 - 06/2024)

- Python application serving as a storage system for user credentials which includes random generation and tag-filtering system using tkinter GUI.

### TaskManager (04/2024 - 05/2024)

- Python app with tkinter GUI where the user manages to-dos, calendar, filter and search.

### 2024 "Carson" Robot Program (01/2024 - 04/2024)

- Java robot program for the 2024 FRC game; distance interpolation and locking to game targets using AprilTag IDs; autonomous routines with decision-making; and auto-pickup and auto-score.

### 2023 "Foniks" Robot Program (01/2023 - 04/2023)

- Java robot program for the 2023 FRC game; full-field localization and pose estimation using inverse kinematics and AprilTag IDs; autonomous routines with decision-making; and auto-pickup and auto-score.

## ACHIEVEMENTS

### Reta & HJ Haynes '46 University Scholarship (Texas A&M) (06/2024)

Merit-based scholarship funded by a philanthropic gift to support high-achieving students with strong academic and leadership backgrounds.

### Esto Dux Leadership Award - Nolan Catholic High School (05/2024)

Awarded to two senior Student Council members who have demonstrated exceptional commitment to academic excellence and showcased core leadership characteristics and virtues.

### Service Hour Gold Cord (05/2024)

Awarded for over 200 hours of community service through a high school career.

### FIRST Robotics Championship - Team 4206 - World Semifinalists (04/2024)

Placed 3rd in the World after district, state and world divisional competition through collaborating on complex robot designs, programming, competition strategy and robot operation.

### FIRST Robotics Championship - Team 4206 - Daly Division Semifinalists (04/2023)

Demonstrated exceptional teamwork, problem-solving and engineering skills as part of an FRC team that reached the division semifinals at the world competition.

### Second Degree Black Belt Tae Kwon Do (08/2020)

7 year training in Taekwondo forms, sparring, weapons and techniques; national competition with exemplary results in each discipline; teaching students the Bo Staff weapon; and mentoring and evaluating peers and younger students.