

# Jary Jerome Miel Tolentino

New York City • 5716853431 • tolentinojary@gmail.com • linkedin.com/in/jary-tolentino

## EDUCATION

### Combined Plan Program

May 2026

**Columbia University**, The Fu Foundation School of Engineering and Applied Science, New York, NY

Bachelor of Science in Computer Engineering

**Fordham University**, Bronx, NY

Bachelor of Science in Math and Computer Science

## AWARDS AND HONORS

Dean's List, ASPIRES Scholarship Awardee (STEM Award), UPS Scholarship, Dolf & Mildred Leitner Scholarship

## RELEVANT COURSEWORK

Computer Architecture, Operating Systems, Circuit Analysis, Signals and Systems, Data Structures, Computer Algorithms, Computer Organization, Database Systems, Theory of Computation, Multivariable Calculus I & II, Discrete Mathematics, Linear Algebra, Numerical Analysis, Differential Equations

## RELEVANT EXPERIENCE

**Fordham Robotics and Computer Vision Lab**, *Lab Technician*, Bronx, New York September 2023 – May 2024

- Developed Python scripts to enable depth data acquisition from the Pioneer 3-At depth camera, enhancing data collection capabilities for Visual Homing and Wide Area Navigation
- Implemented SIFT algorithm and Pandas dataframe for feature detection within depth and color images stored
- Operated the Pioneer 3-AT using the Robot Operating System (ROS) for command execution, conducting comprehensive lab and field experiments
- Assembled and tested three TurtleBot3 Burgers for laboratory experiments, ensuring functionality and reliability
- Managed laboratory maintenance, including backup procedures for lab servers and routine checks to ensure optimal performance of TurtleBot3 and Pioneer P3-At Robots

**Fordham Robotics and Computer Vision Lab**, *Research Assistant*, Bronx, New York May 2022 – December 2022

- Disassembled and upgraded Pioneer 3At robots in preparation for Wide Area Navigation by replacing the onboard computer with a Raspberry Pi 3B+
- Utilized Robot Operating System (ROS) to send commands to the Pioneer 3At and conducted a series of lab and field experiments
- Wrote Python scripts that were used hand-in-hand with ROS for joystick control, obstacle detection and avoidance through sonar sensors, and image capturing for the Pioneer 3At

**Fordham University**, *Technical Assistant*, Bronx, New York September 2021 – December 2021

- Assisted administration, faculty, staff, and students who call, email, or visit the IT Customer Care Centers
- Troubleshooted issues connecting to the Fordham network by updating/installing virus software, updating Windows
- Responded to technology based requests by phone, email, or in person with exemplary customer service skills, patience, and strong communication skills

## SKILLS

C, C++, Python, ROS, HTML, Windows 10, Linux, Ubuntu, Raspberry Pi, MATLAB

## LANGUAGES

Fluent in English and Tagalog