Maya De Los Santos

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EDUCATION

Northeastern University Honors Program | Boston, MA   Expected May. 2025
Bachelor of Science in Electrical & Computer Engineering   3.8 GPA | Dean's List
Bergen County Academies | Hackensack, NJ   Jun. 2020
Academy of Engineering and Design Technology   3.8 GPA | Honors
Relevant Coursework: Embedded Design: Enabling Robotics, Algorithms that Affect Lives, Cornerstone of Engineering, Calculus III, Differential Equations & Linear Algebra, Artificial Intelligence, Physics II, AP Computer Science A, Intro to Engineering and Design II

Northeastern University | Global A.I. (PhD Level Course)   Jan. 2023 – Present
- Learn how culture and culture models can influence the design of intelligent interfaces in class taught by Dr. Saiph Savage
- Identifying how certain intelligent interfaces can promote racism, ableism, sexism, & be problematic for certain cultures

Université de Toulouse | How Humans Judge Machines (PhD Level Course)   Mar. 2021 – May 2021
- Learned about human perception of machines through research review & in-class activities taught by Dr. Cesar Hidalgo
- Created and presented video project discussing the ethical and moral implications of Neuralink

TECHNICAL SKILLS

- C++, C#, GitHub, Python, Linux, Java, HTML, AutoCAD, SolidWorks, Inventor, MATLAB, Dedoose, Arduino, Raspberry Pi Model 3, PyCharm, Atom, Microsoft & Google Suites, Soldering, Bandsaw, Laser Cutting, 3-D Printing, CNC Milling, Spanish
- Built PC computer from scratch to utilize for AI & machine learning

WORK EXPERIENCE

Northeastern University's Civic A.I. Lab | Research Assistant   Jan. 2023 – Present
- Analyzing 50 surveys with gig-working women in LATAM using affinity mapping method to find themes in their challenges
- Created designs for A.I. tool to address alienation theme that were included in a report with LATAM company, PIT Policy Lab
- Develop interview guide to investigate gig workers' comfortability with surveilling employers for sousveillance tool design
- Attending workshops & networking with the DAIR Institute, <A+> Alliance for Algorithmic Justice, Feminist A.I. Network, Universidad Nacional Autónoma de México, Datos Contra el Feminicidio, and Global Partnership in A.I.

Northeastern University | Resident Assistant   Mar. 2022 – Present
- Responsible for directly supporting 29 undergraduate residents through specialized communication including one-on-one discussions, roommate/suitemate agreement facilitations, and hosting monthly events to nurture belonging
- Collaborating with staff of 36 to target areas of improvement during creation of environments conducive to the academic, social, and personal growth of 1600+ undergraduate residents

Philips | HealthTech Software Engineering Co-op   Jan. 2022 – Aug 2022
- Develop and debug C# applications and components within team focused on creation of Patient Monitoring systems
- Contribute to Philips' internal GitHub to enhance and expedite transition to modernized microservice-based application

Northeastern University | Teaching Assistant   Aug. 2021 – May 2022
- Grade assignments of 34 students in GE1501 Cornerstone of Engineering I & GE1502 Cornerstone of Engineering II
- Meet 1-on-1 with students for extra help with C++, AutoCAD, MATLAB, Sparkfun, SolidWorks, & memo writing

Princeton University | AI4ALL Program Summer Teaching Assistant   Jul. 2020
- Responsible for managing 32 students 35-40 hours each week, partnering with instructors to run lecture review sessions, facilitate group AI & society discussions, introduce guest speakers, and facilitate following Q&A's
- Researched and presented presentations on "AI & ethics/society" and "Applications of NLP"
- Intermediate in iMovie application and created celebratory graduation video for students

Recon Industrial Controls Corporation | Electrical Engineering Intern   Sept. 2019 – Jun. 2020
- Programmed LCD display in conjunction with Raspberry Pi and Arduino to showcase recorded temperature data from I²C sensor for entrepreneurial client
- Programmed joystick & stepper motor system to move laser pointer in 180° range for robot "missile guidance" simulator
- Simulated capacitor charging and variable current capacitor discharging utilizing PyCharm and MATLAB

BCA Flash Student Teacher | Student Teacher   Jan. 2017 – Jan. 2020
- Created and taught Principles of Engineering curriculum for 6th, 7th, and 8th grade students
- Lead 45 students through simple machine practice problems and a final Rube Goldberg Project
- Prepared take-home STEM resources, completed student attendance, and managed supply inventory

Technology, Engineering, & Coding for Her (TECH) Camp | Student Teacher   Aug. 2018 – Jul. 2019
- Completed prerequisite teaching pedagogy project course with a final grade of A (100)
- Created and taught Arduino software & hardware curriculum for 7th and 8th grade students
- Lead 54 students through SnapCircuit projects, TinkerCad circuit simulations, & hands-on Arduino projects
- Mentored 120 students interested in engineering and computer science

Engineering Camp (eCamp) | Head Counselor   Aug. 2017 – Aug. 2019
- Mentored 60 incoming 9th grade students in engineering and high school preparation across 3 years of student-lead camp
- Created and lead introductory engineering activities including soldering, Arduino, AutoCad, and Inventor topics
- Researched and presented presentations on "General Engineering" exploring various fields in-depth
- Managed daily ice breaker activities and student attendance

PROGRAMS & PERSONAL PROJECTS

Carnegie Mellon University REUSE Program   Jun. 2021 – Feb. 2022
- Investigate user awareness of TikTok's algorithms and privacy policy to understand if users believe the benefits of TikTok outweigh the privacy terms they must consent to before gaining access to the application [Poster] [Presentation]
- First author of extended abstract paper accepted to 20th Mobile and Ubiquitous Multimedia conference in Leuven, Belgium
- Designed interview guide and conducted 12 semi-structured interviews with TikTok users
- Coded, analyzed, and interpreted results from interviews using qualitative analysis software Dedoose

Northeastern University Honors Direct Study Research   Jan. 2021 – May 2021
- Investigate issues with machine prediction and human decision pipeline [social media monitoring by government agencies]
- Utilized python framework *TextAttack* to create 102 adversarial examples used to test popular sentiment analysis tool *LIWC*
- Organized results from LIWC testing to identify software's accuracy in labeling adversarial examples as positive/negative

Northeastern University UPLIFT Scholar Research   Sept. 2020 – Dec. 2020
- Programmed, graphed, and analyzed comparison of insertion sort vs. merge sort efficiency and created program to calculate π by "throwing" darts at a circle inscribed in a square
- Experimented with parallel computing using pthreads to divide and conquer programs
- Intermediate in utilizing Linux commands to navigate and run programs on the Discovery Cluster

Cornerstone of Engineering | "ÆGIR'S REIGN" Final Project   Jan. 2021 – Apr. 2021
- Selected for a Best-In-Section award
- Developed program to test Adafruit Neopixels and cut them into 4 even strips for lanes
- Soldered aux module to header pins and 22 wire extensions to 4 NeoPixel strips, 2 IR beam break sensor sets, and foot pedal
- Designed Norway stamp in Solidworks and managed 3D printing of stamp and viking player figure
- Designed hardware and game aesthetics (i.e. viking theme, electronics housed in viking ship, instructional poster/guides)

Electrical Engineering Coral Research   May. 2017 – Jun. 2020
- Presented research in Hiroshima Kokutaiji Senior High School's science convention and again at the Board of Education
- Developed I²C bus device to continuously transmit live data to IoT ThingSpeak website over flexible Wifi modular
- Device connected temperature, luminosity, & humidity sensors through common four pins (VDD, GND, SDA, SCL)
- Goal of monitoring endangered coral reef environments to provide real-time data for researchers

Princeton University AI4ALL Program   Jul. 2018 – Aug. 2018
- Collaborated on and presented Natural Language Processing "Fake News Challenge" research project
- Traveled to Washington D.C. to meet with AI policy makers and learn about the challenges of their work
- Learned various AI topics through a combination of lectures, programming assignments, & mentorship

EXTRACURRICULAR/COMMUNITY INVOLVEMENT

President, Society of Hispanic Professional Engineers | Boston, MA   Apr. 2022 – Present
- Redefining position outlines and managing transition meetings between 11 board members and their successors
- Planning semester meetings and National Convention for the Fall, and delegating responsibilities to each board member

Internal Affairs Chair, Society of Hispanic Professional Engineers | Boston, MA   Apr. 2021 – Apr. 2022
- Planned events to celebrate Hispanic Heritage Month, Black History Month, & College of Engineering Recognition Banquet
- Manage professional development within and affiliated with Northeastern University and representative at admin meetings
- Represent NEU SHPE at monthly College of Engineering Student Advisory Committee and Latinx Coalition meetings

Ambassador, Society of Hispanic Professional Engineers   Jan. 2021 – Apr. 2021
- Created, presented, & moderated discussion regarding adversarial buzz words (e.g. diversity vs. inclusion)
- Developed leadership skills by shadowing E/A-Board members and attending weekly board meetings

Gold Award Recipient, Girl Scouts of Northern New Jersey   Sept. 2009 – Aug. 2020
- Utilized Gold Award project to develop & teach STEM workshops for young girls in my community

Founder / President, Artificial Intelligence Club   Sept. 2018– Jun. 2019
- Organized programming lessons & debates about controversial AI ethics & social policy
- Mentored 19 students interested in the intersection of artificial intelligence and ethics

AWARDS/INTERESTS

- 2023 Entegris Foundation Engineering Scholarship
- 2023 AJC Merit Researcher Scholarship
- 2022 Grace Hopper Celebration Scholar
- Northeastern University Dean's List (Fall 2020, Spring 2021, Fall 2021, Fall 2022)
- 2021 BETF Corporate Scholarship Recipient
- 2021 Generation Google Scholar Recipient
- Girl Scout Gold, Silver, & Bronze Awards Recipient
- 2020 NCWIT Aspirations in Computing National Award and New Jersey Affiliate Winner
- 2019 Hispanic Heritage Youth Award Silver Medalist for Technology & Engineering
- Addressing algorithmic bias and increasing diversity and inclusion in STEM fields
- Reading, Singing, Embroidery, Logic games, Volleyball, Basketball, Traveling (Japan & Dominican Republic)