

Justin Almendral

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EDUCATION

Northeastern University, College of Engineering - Boston, MA Expected Dec 2023

Candidate for Bachelor of Science in Computer Engineering | **GPA:** 3.91

Relevant Coursework: Discrete Structures, Calculus 3 for Engineers, Differential Equations, Cornerstone of Engineering

Union County Magnet High School - Scotch Plains, NJ Sept 2015 - June 2019

High School Diploma, Engineering | **GPA:** 3.97 (Unweighted), 4.57 (Weighted)

Relevant Coursework: AP Physics C: Electricity and Magnetism, AP Physics C: Mechanics, AP Calculus BC

SKILLS AND INTERESTS

Applications: Solidworks, Onshape, AutoCAD, Microsoft Office, G Suite, Fusion360

Programming Languages: Python, C++, JavaScript, Java

Research Interests: Robotics, Human-Computer Interaction

WORK EXPERIENCE

Picatinny Arsenal - Wharton, NJ June 2020 – Aug 2020

College Qualified Leaders Apprenticeship

- Conducted testing of pre-release version of open-combat virtual open-architecture vehicle game
- Worked closely with Army game developers to provide feedback on bugs and improvements

Grotto Engineering – Cranford, NJ Jan 2019 – June 2019

Student Intern

- Determined measurements and calculations for the implementation of swales on sites to manage rainwater
- Conducted research and compiled materials for firm presentations to client and associates for ongoing projects
- Calculate dimensions using Civil3D and AutoCAD to determine future planned construction projects
- Extrapolated data from past quotes to create formulas for determining pricing for road improvements

LEADERSHIP EXPERIENCE

FIRST Robotics Competition Team 1257 - Scotch Plains, NJ Sept 2015 - June 2019

Media Captain (May 2017 - June 2019)

- Led and directed upkeep of social media and photographic documentation for 4 years with over 500 followers

Boy Scouts of America Troop 73 - Westfield, NJ Sept 2013 - May 2019

Assistant Senior Patrol Leader (Oct 2017 – June 2019), Scribe (Sept 2016 – June 2017), Eagle Scout (May 2019)

- Spearheaded 324 man-hour Eagle project to create historical photo database and curate exhibit for Drake House Museum
- Designed and passed down database using Microsoft Excel for the tracking of meeting attendance and patrol points
- Worked one-on-one with scouts to provide guidance and authenticate skills for the completion of rank requirements
- Communicated with and worked as a liaison between Senior Patrol Leader and Patrol Leaders to run meetings and trips

AWARDS, HONORS, AND CERTIFICATIONS

Education: Dean's List (Spring 2020), National Honor Society (2019, 2018), National Merit Letter of Commendation (2019)

Professional: Autodesk Certified User (AutoCAD), NOCTI Pre-Engineering/Engineering Technology

Leadership: Boy Scouts of America – (Eagle Scout – May 2019, National Youth Leadership Training - Aug 2017)

COMMUNITY SERVICE & VOLUNTEER WORK

EVKids – Boston, MA Sept 2019 – Present

Student Volunteer

- Providing weekly one-on-one tutoring to a 3rd grade student in reading and mathematics to improve academic performance

SNAP|SOCIAL Research Laboratory - Boston, MA Jan 2020 – March 2020

Volunteer Research Assistant

- Cleaned and compiled over 2,800 logs of digital communication messages for analysis of indicators of domestic violence

Roxbury Robotics – Boston, MA Sept 2019 - Nov 2019

Student Volunteer

- Supervised and guided children aged 11 – 16 with the assembly and programming of Lego Mindstorms