

# BLAKE CAPELLA

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## EDUCATION

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**THE COLLEGE OF NEW JERSEY (TCNJ)**  
*Bachelor of Science in Electrical Engineering*  
*Minor in Physics*

EWING, NJ  
May 2020

- **GPA:** 3.89/4.00
- **Honors:** National Engineering Honor Society (*Tau Beta Pi*), Armstrong Scholar Award, Four-time Dean's List

## RESEARCH EXPERIENCE

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**INTELLIGENT MEDIA PROCESSING LABORATORY**  
*Student Research Assistant*

EWING, NJ  
October 2017 - Present

- Researched machine learning and its applications
- Primarily focused on implementation of Deep Learning on embedded systems.

**CARNEGIE MELLON UNIVERSITY**  
*Human Computer Interaction Institute REU Student*

PITTSBURGH, PA  
May 2018 – August 2018

- Worked in a small team to compare various machine learning techniques and their performance in classifying stretches and exercises.
- Novel applications included computer vision, task segmentation and cognitive assistance.

## WORK & PROJECT EXPERIENCE

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**PENNAPPS XVIII**  
*University of Pennsylvania*

PHILADELPHIA, PA  
September 7-9, 2018

- Participated in one of the nation's largest hackathons.
- Worked in a small team and created an emergency medical assistant capable of reducing the time until treatment as well as patient recovery rate in emergency health situations.

**DEPARTMENT OF DEFENSE**  
*Gains in Education Math and Science (GEMS), Near Peer Mentor*

FREDERICK, MD  
June 2017 - August 2017

- Acted as a full-time mentor and teacher to middle and high school students in robotics and computer science.

## TECHNICAL SKILLS

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### **Programming Languages:**

- Python, C, Verilog, Java, C++, Arduino

### **Development Tools:**

- MATLAB, Simulink, LabVIEW, Xilinx Vivado, PSoC Creator, PSpice

## LEADERSHIP SKILLS

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**THE BONNER INSTITUTE FOR CIVIC AND COMMUNITY ENGAGEMENT**  
*Bonner Community Scholar, AmeriCorps Member*

EWING, NJ  
August 2016 – Present

- Operated in a small issue-based team to provide sustained services to the Trenton community.
- Worked in a small team to organize and lead community-based learning trips for over 1,500 first year students.
- Attend weekly leadership development seminars including conflict management and communication trainings.