

NOAH HATHOUT

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EDUCATION

B.S. in Computer Engineering, **Boston University** (GPA: 3.69 / 4.00)
Concentration: Machine Learning

Expected May 2025
Dean's List

SKILLS

Languages & Frameworks: Python, C, C++, C#, TensorFlow, PyTorch, MATLAB, JavaScript, HTML/CSS, Java
Hardware & Embedded Systems: Arduino boards, Raspberry Pi, ESP32 microcontrollers, NVIDIA Jetson AGX Orin, UR5e & UR10e robotic arms
Robotics & Simulation: Robot Operating System 2 (ROS2), NVIDIA Isaac Sim, nvblox, Visual SLAM
Sensors & SDKs: Intel RealSense D435i, Orbbec Gemini 2L/335L, Intel RealSense SDK, Orbbec SDK
Development Tools: Git, GitHub, Docker, Arduino IDE, OnShape, UltiMaker Cura, ESP-IDF
Operating Systems: Ubuntu Linux, Windows 10/11, macOS

RELEVANT COURSES

Intro to Software Engineering | Intro to Machine Learning | Intro to Logic Design | Deep Learning | Signals and Systems
Reinforcement Learning | Smart (Embedded) Systems | Computer Organization | Software Design | Probability and Stats

EXPERIENCE

Research and Development Intern

Universal Robots 

Odense, Denmark
May 2024 - Sep 2024

- Engineered a high-impact project within the Innovation Lab, working extensively with computer vision technologies, integrating depth-sensing cameras
- Developed software using ROS2, NVIDIA packages, C++, Python, and Docker environments

Teaching Assistant

Boston University, College of Engineering

Boston, MA
Jan 2023 - May 2023

- Collated supplies for class, administered two weekly office hours
- Built 2 Ender-3 V2 3D printers and coordinated 3D prints for student projects

Entrepreneur

Gripls

Charlotte, NC
May 2020 - Aug 2022

- Established an online and in-person retail business; sold accessories for sports gear
- Distributed 50% of net profits to various non-profit organizations such as Autism Speaks

PROJECTS

bghtNET - Deep Learning Final Project (EC523)

Feb 2024 - May 2024

- Revitalize Meta's state-of-the-art model Detectron2 into a facial recognition and attention-seeking model.
- Integrated COCO instance segmentation with a retrained Detectron2 model to analyze attention patterns in real-time video streams.

MATLAB Gentrification Analyzer - Intro to Engineering Final Project (EK125)

Sep 2021 - Dec 2021

- Conducted data analysis study on building permits in San Francisco to provide conclusions about gentrification in the city
- Analyzed over 180,000 data points and authored technical reports to document findings

SitDown - Intro to Software Engineering Final Project (EC327)

Jan 2022 - May 2022

- Led and managed team of 4 engineers to develop a web application allowing users to reserve restaurant tables using MongoDB, HTML, and JavaScript
- Presented final application to professor and class of 25 students

Additional Projects

- Digital Thermometer Prototype (EK131), Truss Stress Analyzer (EK301), Smart Bike Light, RedLight.link

AFFILIATIONS

Member of IEEE | BU Intramural Tennis | BU Marine Science Association | BU Motorsports Club