# Ita Futran

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## Education

**Massachusetts Institute of Technology** September 2020 - May 2024

Mechanical Engineering with a focus in Robotics, GPA 4.7/5.0

## Experience

**Undergraduate Researcher** September 2021 - August 2022

*Sea Grant Lab, MIT, Cambridge, Massachusetts*

- Designed and prototyped a new flipping mechanism for an oyster cage flipping boat.
- Began a new project on imitating the water dissipation from coral reefs.

**Mechanical Engineering Intern** June 2022 - August 2022

*Macco Robotics, Malaga, Spain*

- Redesigned robotic arms for the humanoid bartender, Kime.
- Lead a team of interns in creating a coffee dispenser for Nestle.

**Undergraduate Researcher** June 2021 - September 2021

*Computer Science and Artificial Intelligence Lab, MIT, Cambridge, Massachusetts*

- Programmed a wrapper using Robotic Operating System for a DJI drone and a simulator.
- Collaborated in a team with two other undergraduate students and a PHD researcher to create a cohesive system for collecting data.

**Assistant Researcher Intern** June 2018 - August 2018

*Organic Robotics Lab, Cornell University, Ithaca, New York*

- Worked under PHD students finalizing prosthetic hand designs using Autodesk Fusion.
- Personal project designing and resin-printing a virtual reality feedback glove.

## Leadership and Awards

- **Co-founder of MIT Arcturus :** Co-founded a new autonomous boat team at MIT.
- **Innovation Award at MakeMIT:** Worked with a team to create a prototype for an automatic shoelace tightener for the disabled community.

## Personal Projects

- **Internal Combustion Engine :** Used CAM software along with manual milling and lathing to create a functioning internal combustion engine.
- **Electric Go-Kart :** Built a wooden base and reused electrical components from various other broken machines to create a steerable electric go-kart.
- **Arcturus.mit.edu :** Designed, coded, and published a website for my build team.
- **Tank-like Robot :** Manufactured an autonomous tank-like robot using machining skills and CAD. Implemented a unique tread system with 3D printed sprockets.

## Skills

**Software:** 3D design in Autodesk Fusion 360; Solidworks; ROS

**Machining**: Experience prototyping with wood, metal, plastics, and resins. Extensive training in machine shop tools such as mills, lathes, and other common machining equipment.

**Programming Languages:** Python; C++; Javascript (Basic)