





# NICK BEDI

## Mechatronics Developer

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## Education

Mechatronics Engineering, *University of Waterloo*

June 2019

- Option in Artificial Intelligence, Co-op
- B.AS - Cumulative Average: 87%

## Cultured Meat Work Experience

Co-Founder & CEO | *Another Fish*

2020 - 2022

- Led team to X-PRIZE Semi-finals, winning \$17'000 (USD)
- Designed a Microfluidic System that would autonomously create unique culture medias, grow mammalian cells on microcarriers in culture media and evaluate media effectiveness
- Implemented optimization algorithms to determine what culture media to test
- Gained experience with mammalian cell culture

## Co-op Experience

Autonomous Car Software Developer | *U of Waterloo*

May – Aug 2018

- Developed an automated calibration method for autonomous car sensor system

Embedded AI Software Developer | *Coherent Logix*

Sept – Dec 2017

- Implemented an efficient convolution neural network algorithm on proprietary hardware

Localization Software Developer | *Avidbots*

Sept – Dec 2017

- Implemented probabilistic mapping and localization algorithm for mobile robot

Research Assistant | *U of Waterloo*

April – Aug 2016

- Developed and implemented an optimization procedure for an 8 variable non-linear machine

Life Science Automation Designer | *ATS Automation*

Sept – Dec 2015

- Worked with customers, vendors, tool makers, and technicians to coordinate various tasks

Mechatronics Test Designer | *Synaptive Medical*

Jan – Aug 2015

- Established and executed a validation process for neurosurgical robot

## Projects

Multi-Camera Conference Calling System

2019

- Designed and built a multi-camera system that uses AI to map location of people and point one camera at whomever is speaking and another at whomever is most likely to speak next

Autonomous Under-Water Vehicle

2018

- Built waterproof hull, integrated 6 motors, a depth sensor, proximity sensors and a camera
- Programmed autonomous navigation system

## Activities and Awards

Finite Element Analysis – Best Overall Project

2016

- Awarded \$1000 for project which minimized stress concentration in a carabiner using ANSYS

Sandford Fleming Foundation Award

2016

- Awarded \$300 for outstanding written communication in work term report

## Skills

- Languages: C, C++, Python, MATLAB
- Cultured Meat: Mammalian Cell Culture, Microcarriers