CONTACT

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IOAKEIM NORIHISA KALTSIDIS

ROBOTICS ENGINEER AT TINYMILE.AI

EXECUTIVE SUMMARY

I am an engineering graduate with interests and experience in robotics and mechatronics. I aspire to build a career in the field of robotics.

TECHNICAL SKILLS

- Python
- C / C++
- ROS
- STM32
- Docker
- Matlab
- Simulink
- Swift
- MBed
- Solidworks
- ANSYS
- AutoCAD
- Xilinx ISE
- VHDL
- Ubuntu
- LabView
- Visual Basic
- Arduino

AWARDS AND ACCOMPLISHMENTS

MITACS ACCELERATE SCHOLARSHIP
- University of Toronto - 2020

ONTARIO – BADEN WÜRTTEMBERG SUMMER RESEARCH SCHOLARSHIP
- University of Guelph - 2018
- In partnership with Karlsruhe Institute of Technology, Germany

DEAN'S HONOUR LIST
- University of Guelph, 2017-2019

LEADERSHIP AND VOLUNTEERING

PROFESSIONAL DEVELOPMENT CONFERENCE FACILITATOR
- University of Guelph - 2018

HYPERLOOP TEAM CAPTAIN
- University of Guelph - 2018

Hyperloop team Captain of frame

ROBOTICS TEAM PRESIDENT
- University of Guelph - 2017

ENGLISH TUTOR
- University of Guelph - 2019

PROFESSIONAL EXPERIENCE

Robotics Engineer - Software Team

Tinymile.ai | March 2020 - Present

- Developed controls software on-board mobile delivery robots
- Regular debugging and maintenance of on-board robot software
- Developed software for lid opening and locking system

Research Assistant - Mechanical Research Lab & Robotics Institute

University of Guelph | Sept 2018 - April 2019

- Neural network image classification using TensorFlow and Keras
- Image augmentation and resolutionehancement
- Sensor integration and interfacing for bioreactor system

Research Associate - Institute of Automation and Applied Informatics

Karlsruhe Institute of Technology | May 2018 - August 2018

- Optimized and designed an automated high precision adhesive dispensing and UV light curing process system for micro and nanophotonic applications (photonic wire bonding)
- Utilized MATLAB to develop light ray simulations for polymerization

Co-op Engineering Student - Sobotec Advanced Manufacturing Team

Sobotec Ltd. | May 2017 - Sept 2017, May 2019 - Sept 2019

- Modelled 3D AutoCAD files of architectural layouts in SolidWorks
- Optimized material assembly and fabrication processes
- Coded software for custom panel bending using Bend Express

EDUCATION

Master of Engineering (M.ENG) | Mechanical Technical Emphasis in Robotics

University of Toronto | March 2020 - Anticipated April 2021

M.ENG Research Project - Autonomous Motion Planning for a Safe and Efficient Last Mile Delivery Robot (focus on pose control)
- Perception, Motion Planning, Controls, Unmanned Aerial Systems

Master of Applied Science (MASc.) Candidate | Mechanical

University of Toronto | Sept 2019 - March 2020

- Research in multi-robot coordination for mobile target search applications

Bachelor of Engineering (BENG.MECH) | Mechanical

University of Guelph | September 2015 - June 2019

- Specialized in Robotics and Sustainable Energy Streams
- Design Project Highlights: [1] Controller for Cross Couple 4 Tank System, [2] Autonomous Gliding Plane, [3] Impact Loading Drop Tower for Auxetic Materials, [4] Automated Nut and Coin Sorting Machine