# Osamu Katagiri

mail@osamukatagiri.me

## EDUCATION

### TECNOLÓGICO DE MONTERREY
MSc in Nanotechnology
Jan2019 - Dec2020 | Estado de México, MX
Cum. GPA: 3.8 / 4.0

### TECNOLÓGICO DE MONTERREY
BS in Digital Systems and Robotics
Aug2012 - May2016 | Querétaro, MX
Cum. GPA: 3.5 / 4.0

## COURSEWORK

### GRADUATE
Nano-structured Materials • Carbon Nano-materials • Plastics and Composites Engineering • ***Rheology & Electrospinning***

### UNDERGRADUATE
Sensors • Control Engineering • ***Digital Systems*** • Computer Architecture • Embedded Systems • Web Application Design • Microcontrollers • Electric Circuits

## LINKS

LinkedIn:// **Osamu Katagiri-Tanaka**
Personal Website:// **osamukatagiri.me**
Github:// **KiraSenseiMX**

## SKILLS

### PROGRAMMING
Over 5000 lines:
Python • Javascript • LaTeX

Over 2000 lines:
C • C++ • ADA • Verilog • VHDL

Over 1000 lines:
Java • CSS • PHP • Assembly

Familiar:
Kotlin • Swift • MySQL

## AWARDS

- **Software EEDP graduate at GE Aviation** - May 2018 - top 4%
- **GE 9th Lean Challenge** - Aug 2015 - 1st/100
- **GEIQ's Robotics Project** - Nov 2014 - 1st/50

## EXPERIENCE

### GE AEROSPACE | Lead Systems Eng.
Aug 2022 - Present | Querétaro, MX
• At General Electric's Aviation Systems CNMS team (Computing, Networking & Missions Systems), I participate in requirement development, verification and technical reviews of the Common Core System (CCS) for the Boeing 777X aircraft. The CCS is often referred to as the "central nervous system and brain" of the airplane and hosts the aircraft's avionics and utilities functions

### GE AVIATION | Lead Embedded Software Eng.
Jun 2021 - Jul 2022 | Querétaro, MX
• At General Electric's Aviation Systems Power - Software team, I participate in the development, verification and technical reviews of the Electrical Load Management System 3 (ELMS3) for the Boeing 777X aircraft. ELMS3 provides load management and protection to ensure power is available to critical and essential equipment.

### GE AVIATION | Embedded Software Eng.
Jun 2018 - Dec 2018 | Querétaro, MX
• At General Electric's Business & General Aviation (BGA) Software team, I got involved in the verification of the Advanced Power Management System (APMS) for the Gulfstream VI aircraft.

### GE AVIATION | SW Edison Engineering Development Program
Jun 2016 – May 2018 | Querétaro, MX
• EEDP is an intensive program for people who have a passion for technology, a drive for technical excellence, and share in GE's core values. • 1st rotation at GEIQ-BGA software validation & verification team • 2nd rotation at GEIQ-N&G tools team • 3rd and 4th rotations at GEIQ-BGA software development team

### GE RENEWABLES | Software EID Intern
May 2015 – May 2016 | Querétaro, MX
• I worked on the analysis and optimization of +20 wind turbines for every GE wind farm worldwide.

## RESEARCH

### MACROPHOTOSCIENCE RESEACH GROUP | as MSc Student
Jan2019 – Dec2020 | Monterrey, MX
Worked with **Phd. Alan Aguirre** and **Phd. Dora Medina** to determine the electro-spinnability of various polymer solutions for the fabrication of carbon nano-wires.

### MACHINE LEARNING RESEARCH GROUP | as PhD Student
Feb2021 – May2021 | Estado de México, MX
Worked with **Phd. Octavio Loyola** and **Phd. Miguel Angel Medina** to optimize aircraft collision avoidance algorithms using deep neural networks.

## PUBLICATIONS

[1] S. Beigi-boroujeni, O. Katagiri-tanaka, B. Cardenas-benitez, O. Sergio, and A. Aguirre-soto. **pyrolytic carbon from novolac epoxy resin compressed before photocrosslinking and pyrolysis**. *Materials Today: Proceedings*, 2020.