

LUCAS KYOSHI MIYAZAKI

BSc Mechatronics Engineering
Universidade de São Paulo (USP)

2016 - 2020

- **FAPESP Scholarship in 2018**
- **Main field of research:** Computational geometry (such as computer vision, 3D printing, CAD/CAM, VR/AR, image/mesh processing).
- **Secondary field:** Biomechatronics and tissue engineering.

WORK EXPERIENCE

Junior Engineer
Galy - US

SEP 22 - AUG 23

- Created a method to 3D scan cotton fibers and visualize it in a VR app.
- Developed a data logger to send sensor's data collected from a low cost bioreactor to the cloud (using esp8266).
- Worked in an automation platform using ABB robotic arm to automate lab processes.
- Produced an institutional VR video (360° and stereoscopic) for the company in partnership with a 3rd party company.

Junior Engineer
TissueLabs - BR

DEC 20 - AUG 22

Biomechatronics Engineer in a highly innovative startup that develops 3D printers and inks to produce artificial organs and tissues. Main responsibilities were:

- Development of a web CAD/CAM software to communicate with the printer (using ThreeJS and Slic3r) hosted in Google Cloud.
- Development of bioreactors with Arduino.
- Modeling and 3D printing microfluidics chip, valves, medical devices, organs and soft robots in Fusion360.
- Maintenance and calibration of lab machines.

International Intern Student
The University of Tokyo - JP

Aug 19 - Jan 20

The main thematic priority of studies were computer graphics and computational geometry.

FullStack Dev Intern
V360

Jun 20 - Dec 20

Worked in web development using JS, Ruby on Rails, SQL. Also, had the chance to apply my knowledge in computer vision for an OCR project.

PUBLICATIONS

2020

Designing a Self-Payment Cashier For Bakeries Using YOLO V4 (INDUSCON)

Universidade de São Paulo

Design of a computer vision solution to identify products and automate bakeries cashier using YOLO and OpenCV in Python.

2020

Teeth Mesh Segmentation Through Curvature Analysis (ICGG)

The University of Tokyo

Development of a segmentation software using OpenGL in C++.

2019

Development of a 3D scanning system for tooth molds (SIICUSP)

Universidade de São Paulo

The main purpose of the research was to learn about camera calibration, ICP and mesh reconstruction.

LANGUAGES

Portuguese Native

English 105 TOEFL iBT

Japanese JLPT N4

Spanish Advanced

VOLUNTEERING

Projeto Maduros - Enactus Co-founder and Leader

2018-2019

Activities with elders to stimulate their coordination and cognition.

AIESEC Volunteer in Colombia

2018

Recreational and educational activities for kids in a poor community in Barranquilla.

Inclusão Digital - Poli Cidadã IT Instructor

2016

Lectures for USP employees about the basics of computer usage.

IPoli Event coordinator and HR manager

2016-2018

International club at Universidade of São Paulo intended to help international students and Brazilian students who wanted to study abroad.

Acantonavolley Summer Camp Staff

2016-2019

AWARDS

2020

Winner
Visagio Hackaton

The app developed in the beginning of COVID-19 pandemic estimates the number of people in each grocery store in São Paulo to recommend best times and locations to go shopping.

2021

Achiever and Congeniality
TissueLabs

Best OKR score and most praised employee of the company in the 3rd quarter of 2021.

2014

Bronze Medal
Mathematical Kangaroo

CONTACT

📞 +55 (11) 99583-0510

✉️ lucaskmiyazaki@hotmail.com

🌐 github.com/lucaskmiyazaki

in [linkedin.com/in/lucas-miyazaki-74a587150](https://www.linkedin.com/in/lucas-miyazaki-74a587150)