

# ANDREAS DE SOUSA



## CONTACTS

Phone: +62 815 1021 81 58

Email: desousa.andreas@gmail.com

Address: Jakarta, Indonesia

Birth: 11 - 06 - 1988

## EDUCATION

SUPSI – DTI, Switzerland

**Master of Science: (GPA: 3.61)**

**RF, Microwave Sensors and Communication Systems**

2020

SUPSI – DTI, Switzerland

**Bachelor of Science: (GPA: 3.1)**

**Electrical and Electronics Engineering**

2018

## SKILLS

Python	● ● ● ● ● ●
SQL	● ● ● ● ● ●
Excel / Google s.	● ● ● ● ● ●
Tableau	● ● ● ● ● ●
Matlab	● ● ● ● ● ●
R	● ● ● ● ● ●

## SOFT SKILLS

- Growth mindset
- Creative complex problem solving
- Time management
- Communication skills
- Leadership / Team management
- Adaptability
- Critical thinking

## LANGUAGES

- |              |                           |
|--------------|---------------------------|
| • English    | (Spoken: C1, Writing: C1) |
| • Italian    | (Mother language)         |
| • German     | (Spoken: B2, Writing: B2) |
| • Portuguese | (Mother language)         |
| • French     | (Spoken: A2, Writing: A2) |
| • Spanish    | (Spoken: A1, Writing: A1) |

## WORK EXPERIENCE

Now  
2020

DAYNA COOKIES | Jakarta, Indonesia

**CEO & CO-FOUNDER (seasonal)**

- Development of the company's database, system, and environment.
- Short and long-term strategy, setting strategic goals and development of marketing strategies.
- Assessing risks to the company and ensuring they are monitored and minimized.
- Design, innovate and produce products and packaging based on solid data analysis.

2020  
2018

SUPSI - DTI | 6928 Manno, Ticino, Switzerland

**RESEARCHER ASSISTANT (master)**

- Designed high-frequency electronic technologies and systems up to state of art.
- Analyze complex technical problems, design the related solutions.
- Create devices, manage electronic devices and systems in the fields of microelectronics, digital electronics, industrial electronics, and telecommunications.

2020

SUPSI - DTI | 6928 Manno, Ticino, Switzerland

**ANALYSIS AND DEVELOPMENT OF A 3D IMAGING MICROWAVE SYSTEM (GPA: 4)**

Abstract | The purpose of this Thesis project consists of the study, simulation and realization of different typologies of 3D Imaging systems to optimize and upgrade an existing tomograph developed on TTHF SUPSI laboratory. Once completed, the system will be able to rebuild a 3D Imaging and remove all kinds of artefacts due to reflection and the skin.

2019

SUPSI - DTI | 6928 Manno, Ticino, Switzerland

**RESOLUTION ENHANCEMENT WITH UWB ANTENNAS FOR MICROWAVE IMAGING WITH RAR ALGORITHM (IEEE)**

Abstract | The presented paper provides a study with different antenna types selected with a dominant parameter oriented to determine which parameter increases the resolution for microwave imaging algorithms. The used algorithm in this study is a Robust and Artefact Resistance (RAR) based, developed in the last years for breast cancer detection. This study shows that with directivity as the dominant parameter the resolution of the image increases.

2018

SUPSI - DTI | 6928 Manno, Ticino, Switzerland

**MICROWAVE TOMOGRAPH SYSTEM ( GPA: 4)**

Abstract | The purpose of this project consists of the study, simulation, and realization of different antenna types to optimize an existing tomograph developed in TTHF SUPSI laboratory. The present system works at much lower frequencies, from 1GHz to 8GHz, thus allowing to perform many more annual scans per patient and, consequently, to carry out more frequent checks to intervene promptly in case of detection of breast cancer.

## PROFESSIONAL CERTIFICATES

- 2020/2021
- Google - Data Analytics Specialization
  - IBM - Data Science Fundamentals with Python and SQL Specialization
  - IBM - Data Analysis and Visualization Foundations Specialization
  - Data Visualization with Tableau Specialization
  - Excel Skills for Business Specialization
  - Excel Skills for Data Analytics and Visualization
  - Learn SQL Basics for Data Science Specialization

## RELEVANT COURSEWORK

- Advanced Project Manager
- Applied Statistics and Data Analysis
- Modeling, Simulation and Optimization
- Ordinary Differential Equation
- Innovation and Lean
- Calculus and linear algebra II

## WEB SITES

[www.linkedin.com/in/andreas-de-sousa](https://www.linkedin.com/in/andreas-de-sousa)



<https://andreasdesousa.github.io/>

<https://github.com/AndreasDeSousa>