

# Andrea Nisticò

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## About me

I am a young and motivated roboticist with a strong interest in software architectures, applied control and an international background.

I love challenges and learning from the others, I matured a deep interest in MAVs (Micro Aerial Vehicles) and aerial technology during my master thesis.

## Work Experience

### Teseo Srl

Genova, Italy

#### RESEARCHER AND SOFTWARE DEVELOPER

June 2018–Now

Development of ambient intelligence solutions for the Kibi project: indoor localization and monitoring for elderly care applications on embedded wearable devices.

- Developed an Android WearOS application for elderly care monitoring; main features: indoor localization, fall detection, inactivity detection, device authentication and management through RESTful API
- Designed, implemented and tested a fall detection algorithm based on inertial and barometric pressure data
- Developed a mobile Android application in Kotlin as a user companion app for system management
- Defined the technical specifications (both functional specification and desired peripherals/sensors) of an embedded board intended as a wearable smartwatch.
- Developed a prototype firmware enabling a fall detection algorithm on the custom board, based on a STM32 ARM Cortex-M4 microcontroller
- Debugging and testing of the prototype firmware

### PLAT Corp.

Seoul, S.Korea

#### CO-FOUNDER & SOFTWARE ENGINEER

Jan. 2016 - Jun. 2017

- Implemented RESTful API server for car rental booking application(CARPLAT in Google Play).
- Built and deployed overall service infrastructure utilizing Docker container, CircleCI, and several AWS stack(Including EC2, ECS, Route 53, S3, CloudFront, RDS, ElastiCache, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Developed an easy-to-use Payment module which connects to major PG(Payment Gateway) companies in Korea.

## Honors & Awards

### INTERNATIONAL

2018	<b>Finalist</b> , DEFCON 26th CTF Hacking Competition World Final	Las Vegas, U.S.A
2017	<b>Finalist</b> , DEFCON 25th CTF Hacking Competition World Final	Las Vegas, U.S.A
2014	<b>Finalist</b> , DEFCON 22nd CTF Hacking Competition World Final	Las Vegas, U.S.A
2013	<b>Finalist</b> , DEFCON 21st CTF Hacking Competition World Final	Las Vegas, U.S.A
2011	<b>Finalist</b> , DEFCON 19th CTF Hacking Competition World Final	Las Vegas, U.S.A

### DOMESTIC

2015	<b>3rd Place</b> , WITHCON Hacking Competition Final	Seoul, S.Korea
2017	<b>Silver Prize</b> , KISA HDCON Hacking Competition Final	Seoul, S.Korea
2013	<b>Silver Prize</b> , KISA HDCON Hacking Competition Final	Seoul, S.Korea

## Writing

### A Guide for Developers in Start-up

Facebook Page

#### FOUNDER & WRITER

Jan. 2015 - PRESENT

- Drafted daily news for developers in Korea about IT technologies, issues about start-up.

## Education

### POSTECH(Pohang University of Science and Technology)

Pohang, S.Korea

#### B.S. IN COMPUTER SCIENCE AND ENGINEERING

Mar. 2010 - Aug. 2017

- Got a Chun Shin-II Scholarship which is given to promising students in CSE Dept.