

## Contact

armando.petrella@inwind.it

www.linkedin.com/in/  
armandopetrella (LinkedIn)

## Top Skills

CCNA  
CCIP  
CCNP

## Languages

English (Professional Working)  
Italian (Native or Bilingual)

## Certifications

CCIP  
CCNP  
CCNA

## Publications

Air Mass Flow Prediction Algorithm

# Armando Petrella

Professor of computer science  
Naples

## Summary

Experienced Hardware Engineer with a demonstrated history of working in the automotive industry. Skilled in CCIP, C++, OpenGL, Eclipse, and Java. Strong engineering professional with a Master's Degree focused in Computer Science from Università di Napoli Parthenope.

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## Experience

### MIUR

Professor of computer science  
January 2022 - Present (5 months)  
Napoli, Campania, Italia

### FCA Fiat Chrysler Automobiles

8 years

#### Hardware in the loop engineer

January 2015 - December 2021 (7 years)

Responsible for the development and maintenance of the test environment (H.I.L.) for the automotive electronic control unit. The test environment consist of a hardware part (the electrics and electronics of the simulator), a modelling part (the engine, after-treatment and vehicle simulation models) and a software part (the test-automation framework).

#### HIL test Automation Engineer

January 2014 - December 2014 (1 year)

Pomigliano d'Arco (NA)

Experience with Dspace HIL system for test automation and execution for Automotive subsystems. Good knowledge of engine and transmission control systems. Experience in validating diagnostic requirements using HIL systems including legislative OBD diagnostics. Experience with the standard control development tools Matlab, Simulink, Targetlink

### Fiat-GM Powertrain

6 years

### System Engineer OBD/Diagnostics

January 2011 - December 2013 (3 years)

Naples Area, Italy

Analyze the European emissions legislation in order to define the requirements for vehicle diagnosis. Evaluate proposals implementative diagnosis of suppliers, testing of software prototypes. Defining test cases for diagnosis sw. Definition of requirements and testing for the scantool sw. Support applicators in the calibration of the diagnoses.

### Test Engineer

January 2008 - December 2010 (3 years)

Pomigliano d'Arco

Testing self diagnosis software of Engine Control Unit

### Comune di Caserta

Information Systems Security Officers (ISSO)

December 2006 - December 2007 (1 year 1 month)

Caserta Area, Italy

Research, develop, implement, test and review an organization's information security in order to protect information and prevent unauthorized access.

### Elasis s.c.p.a.

Technician

September 2000 - November 2006 (6 years 3 months)

Testing and Prototyping electronics control systems

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## Education

Università di Napoli Parthenope

Master's Degree, Computer Science · (2010 - 2015)

CAMPUS TILS G. REISS ROMOLI - L'aquila

Corporate Master, Networking · (2005 - 2006)

Università degli Studi di Napoli 'Federico II'

Bachelor's degree, Computer science · (2001 - 2005)

ISVOR FIAT

Automotive Stage, Electronics, Computer science, Engineering motor vehicle · (1999 - 2000)

ITIS “ E. Barsanti” Pomigliano d’ arco (Na), Italy  
Electronics, Computer science, Mechanics, Mathematics ,  
Physics · (1991 - 1996)