



# DAVID ALBANO

Born on: **07/10/1993**  
Age: **27**  
Place of birth: **Rome**  
Municipality of residence: **Rome**  
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Updated on: **30/11/2021**

## SOFT SKILL

Autonomy **8/10**  
Self-confidence **8/10**  
Flexibility / Adaptability **9/10**  
Stress resistance **9/10**  
Ability to plan and organize **9/10**  
Manage information **7/10**  
Precision attention to detail **8/10**  
Continuous learning **7/10**  
Achieve goals **8/10**  
Resourcefulness / spirit of initiative **9/10**  
Communication skills **7/10**  
Problem Solving **9/10**  
Team Work **8/10**  
Leadership **7/10**

## LANGUAGES

Mother tongue: Italian  
English: Fair

- Listening to **A2**
- Reading **B2**
- Dialogue **A2**
- Writing **B1**
- Pronunciation **A2**

## COMPUTER SKILLS

Word Processing: Basic  
Spreadsheets: basic  
Office suite: basic  
Web Browser: basic  
Operating systems: Windows

## HOBBY

1. Dungeon & Dragons
2. Airsoft
3. Larp (Live RPG)
4. Krav maga
5. Cooking
6. DIY

## EDUCATION

Sapienza University of Rome  
Faculty of Mathematical, Physical and Natural Sciences  
LM-71 - Master's Degree in Sciences and technologies of industrial chemistry

LM



Thesis title: '**QUALITY BY DESIGN**'  
**COMPUTATIONAL WITH MATHEMATICAL MODELS OF AMPEROMETRIC BIOSENSORS BASED ON NANOMATERIALS.**

Matter: biosensors  
Speaker: Gabriele Favero, Fabio Zaza  
Keywords: Matlab, glucose, glucose oxidase  
Age at graduation: 27  
Official duration of the study course: 2 years  
Final grade: 104/110

Graduation date: 20/10/2020

Sapienza University of Rome  
Faculty of Mathematical, Physical and Natural Sciences  
Industrial chemistry  
L-27 - Degree in Chemical Sciences and Technologies  
Thesis title: **INTEGRATED BIOSENSORS WITH CERAMIC NANOMATERIALS FOR THE MONITORING OF ANALYTES IN LIQUID MATRIX**

LT



Matter: non-metallic materials for engineering Speaker: Mauro Pasquali, Fabio Zaza  
Keywords: Matlab, TiO<sub>2</sub> nanotubes, glucose oxidase,  
Age at graduation: 24  
Official duration of the study course: 3 years

Graduation date: 26/10/2017

Professional Institute (Chemical-Biological Technician)

Armando Diaz  
Via Acireale, 8

Diploma

Diploma mark: 84  
Diploma title: Italian diploma  
Type of school: State  
Qualification: Chemical-biological technician

## WORK EXPERIENCES

Employer:

**C.N.R. Institute of Crystallography**  
Provincial Road 35d, km 0,700, 00010  
Montelibretti (RM)

Duration: **01/2021 - 08/2021**

Hired as: **Researcher**

Contract: **Scholarship**

Company area: **R&D and patents**

**Main activities and responsibilities:** Within the F.A.C.I.L.E. I participated in the design, development and optimization of impedimetric and amperometric biosensors.

Processing and interpretation of experimental data. Writing of reports and articles on the realization of biosensors. Collaboration in the realization of a new electrochemical instrument and development of external supports for microfluidics to be interfaced with the instrument and test of its functioning through the previously developed biosensors.

**Skills and objectives achieved:** Skills in the organization and management of time and resources within a research project. Strengthening of teamwork skills and coordination with the project supervisor. Ability to develop, optimize and implement a biosensor. Understanding and ability to use the electrochemical impedance scan. Development of computer and electronic skills in the field of instrumental techniques.

**Publications:** <https://doi.org/10.1016/j.apsusc.2021.150791>

Employer:

**Zucchet Gilles by Alessandro Zucchet SRLs**  
Via Giacinto Pullino, 74, 00154 Rome (RM)

Duration: **04/2017 - 12/2020**

Hired as: **Worker specialized in rodent control, disinfection, sanitation, in charge of control and supervision**

Contract: **for an indefinite period**

Company area: **quality, safety, environment**

**Main activities and responsibilities:** The worker specialized in rodent control, disinfection, sanitation, in charge of control and supervision has the task of ensuring the correct storage of the chemical products used by the company, takes care of the preparation of the solutions used in pest control and disinfection, monitors the operations of other workers until they use the correct PPE during disinfection and disinfestation operations. Furthermore, it coordinates the workers in the disposal phase of the excess solution and takes care of transporting the means used for sanitizing, disinfestation and rodent control treatments to the place where the intervention is to be carried out. He provides technical advice to the employer by suggesting the correct products that comply with safety standards in the field of public health and the environment, in order to ensure compliance with the regulations in force on the subject.

**Skills and objectives achieved:**

Management capacity of a chemical products warehouse  
Ability to drive a vehicle equipped with machinery on the rear. Relational skills with managers, subordinates and customers  
Organizational management of works in order to optimize time and costs  
Teamwork to obtain faster and more efficient results

Employer:

**ENEA Casaccia Research Center**  
Via Anguillarese, 301  
00123 Santa Maria di Galeria (RM)

Duration: **09/2019 - 09/2020**

Hired as: **intern / trainee internship while studying**

Company area: **R&D and patents**

**Main activities and responsibilities:** learning the basic functions of Matlab, bibliographic research of documentation through public libraries, coordination through smart working between teachers and trainees, development and interpretation of mathematical models, transposition of mathematical models on computer software.

**Skills and objectives achieved:** technical skills in the field of biosensing, nanotechnologies and mathematical modeling and through software. Insights into analytical techniques such as multivariate analysis and sensitivity analysis. Ability to organize the thesis work from home in coordination with the teachers.

Employer:

**ENEA Casaccia Research Center**  
Via Anguillarese, 301  
00123 Santa Maria di Galeria (RM)

Duration: **03/2017 - 12/2017**

Hired as: **intern / trainee internship while studying**

Company area: **R&D and patents**

**Main activities and responsibilities:** Synthesis of titanium dioxide nanotubes, characterization of them by SEM and EDX, engineering of biosensors, development of enzymatic immobilization techniques, management of the thesis project and management of coordination between Sapienza and ENEA.

**Skills and objectives achieved:** technical skills in the field of biosensing, nanotechnology and ammeter. Insights into analytical techniques and the characterization of materials (SEM and EDX). Acquisition of self-management skills, in teamwork and in the coordination of multiple poles in a single project.