



NADER AL KHATIB

Date of birth: **Nationality:**Italian **Phone number:**

Mobile) **Email address:**

Address:

10/01/2023

Nader Al Khatib

WORK EXPERIENCE

11/05/2019 – CURRENT Frosinone, Italy

CATIA V5 / SOLIDWORKS - CAD ENGINEERING - DESIGN AUTOMATION - MACHINE DIRECTIVE AND LEGISLATION SUPERVISOR GAV ENGINEERING

He is a **CAD Engineering expert** supplying technical solutions to complex automation problems related to checking calipers, components, part conveying, part shaping, and plastic processing. He also manages the timelines and **Gantt** chart for specific products and clients. He is the legislation **supervisor**, and his last approval is mandatory for the machine to be supplied to the final client. He is responsible for the **R&D** department, where he develops new production processes and design methods.

- **CATIA V5 \ SOLIDWORKS Design for industrial automation, particularly regarding variational design.**
- **Gantt** management with Microsoft project
- **VBA\Python\Java Software and Solidworks \ Office macros** to speed up the design documentation and technical drawing production.
- Human-machine security and legal compliance **supervisor (2006/42/EC).**
- **Responsible** for the final checkpoints and standard functionality assessment, and last approval.
- **R&D** department for production and process engineering

Business or Sector Professional, scientific and technical activities | **Department** Technical Office

Website www.gavsistemi.com _____ 30/04/2013

– CURRENT Frosinone, Italy

SOLIDWORKS - ARDUINO - FFF - LSA - VICE PRESIDENT FAB LAB FROSINONE PROTOTYPING AND TECHNOLOGY LABORATORY

In this working experience, he has both management and engineering tasks, he is responsible for the feasibility study of industrial and design prototypes, and he is responsible for five people in design and product management. He brings an engineering mindset to projects maintaining an ordered, rational and project-oriented approach to custom requests. He is also responsible for programming courses and the production processes.

- **Vice-President \ Project Manager**
- **CAD Engineering** for project assessment and feasibility.
- **Solidworks Teacher** for a various clients like **ABB** Sace Frosinone
- Complex assemblies for prototyping with **SolidWorks**, Drones, Industrial Machines, and 3D Print with FFD and SLS technology
- **Drawing and technical documentation with GD&T** of prototyping machines and products.
- **CNC\CAM Expert** for plastic and metal machining with Fusion 360 \ **Solidworks**
- **Revers engineering expert with 3D** scanning and mesh reconstruction
- Teacher of **prototype programming courses** aimed at students, teachers, and companies to spread digital culture.
- Tutor for **Massachusset Institute of Technology** during the academic year 2015-2016 of Fab Academy.
- **Teacher** of Arduino programming course for programming and electronic prototyping.

- Teacher of 12 3D Printing workshops.
- Electronic circuitry design with **EAGLE** design software.

04/09/2019 – CURRENT Frosinone

CATIA V5 / SOLIDWORKS / NX / CREO - CAD PROFESSOR EUROLINK SRL

He teaches classes for engineers, private students, and companies like **ABB**.

Professor in following topics:

2D Drawing Reading
 Body / MultiBody Design
 Assembly Design
 Sheet Metal Design
 Drafting Design
 BOM Management
 Library Population. 3D Printing

Professor in following advanced topics:

Macro Writing
 Part parametrization
 Assembly parametrization CAM
 02/03/2016 – 28/05/2019 Pontecorvo

CATIA V5 - MECHANICAL ENGINEERING - CAD RESEARCH & DEVELOPMENT CLEDAN SRL

He worked in the body in a white automotive environment. His primary role was designing industrial welding machines that require extreme metrological precision and repeatability. He used CATIA V5 to create a complex assembly, technical drawings, and production checklists. His previous experience with CAM and CNC machines made him build the CAM office and the product architecture to lower productivity errors and mistakes. He developed many software macro and simplification to speed up multi-machinemulti-plant projects' design and management process.

- **Dassault CATIA Design for industrial BODY-IN-WHITE automation with particular regard to 3D parametrization.**
- Qs 9000, Avsq'94, Vda 6.1, Eaaf. Quality standards and **NAAMS design standards.**
- **OHSAS Supervisor**, checkpoints manager, and **process engineerization.**
- **CAM** and ductile and hard metals. **Machining** expert.
- Documentation **traceability** and CAD automation (**C++ / VBA applied to CATIA and Office**)
- **English** speakers, abroad designers, and technical representatives of the company in **France and Romania**

01/10/2022 – 27/11/2022 Rome, Italy

PROFESSOR RANDSTAD EDUCATION DEPARTMENT

Nader AL-Khatib worked for Randstad for the dissemination of training courses concerning the training of technical office personnel with topics related to:

Technical drawing for mechanical engineering:

Basic metallurgy
 Mechanical drawing GD&T
 Functional requirements
 Assignment of tolerances of mechanical groups
 Tolerance chains
 Roughness specifications
 Treatments
 ISO and ANSI standards

Industrial Metrology:

Datum
 AISI ISO standards
 Industrial metrology;

The measurement uncertainty.
Dimensional tools. Statistic
analysis.

EDUCATION AND TRAINING

31/12/2018 – 15/08/2022

BACHELOR'S DEGREE IN COMPUTER SCIENCE University Pasadeena Uopeople US California

During the pandemic, I decided to use the time in lockdown to study and enhance my coding skills with a bachelor's degree in Computer Science. My last assignment was implementing artificial intelligence in the design of the engineering environment. The design process integrated with artificial intelligence will be an essential step toward harmonizing design rules that represent a significant driving force for a productive economy. Integrating systems of this type makes it possible for the various manufacturers to follow a specific standard. , decreasing the interpretation times, improving the quality of automation in a general sense with good practice and new implementation methods, dramatically decreasing production waste and purchase errors, thus freeing the human being from all those tasks that are proper instead of a machine, i.e., counting, checking, verifying, and letting the person concentrate on creative activities.

JAVA
Python
VBA
C++
Haskell

Field of study Engineering, manufacturing and construction | Final grade 3.98 / 4 |

CAD Engineering Applied to Computer Science

LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken production	Spoken interaction	

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

ADDITIONAL INFORMATION

PUBLICATIONS

Patent - Lithium polymer battery charging device – 2012

He independently prototyped and **patented** an electronic device for the electronic balancing of accumulators with lithium-polymer chemistry with the EPO highest rating; due to the skills required for this project, he learned many coding languages (**C\C++**, **VB**, **Phyton**) and acquired perfect knowledge and understanding of electronics principles schematics and datasheets.

Industrial patent RM2011A000092, filed with the national patent office, recognized by the **European Commission** with three positive grades of 3:

- A representative for innovation.
- Of inventive height.
- Of industrial applicability.

Patent of electronic and **automation** type called "intelligent switch." Through a cascade switch system, the patent frees the human operator from continuous and repetitive actions by **automating** the charging process and balancing the lithiumpolymer and similar battery packs. **DRIVING LICENCE**

Driving Licence: A

10/01/2023
N. L. Al. S. S.

Driving Licence: B

COMMUNICATION AND INTERPERSONAL SKILLS

Personal skills

- He has graphic, organizational, and human resource management skills thanks to the position of chairman at a sports association he has worked for since 2006.
- In the SALES Manager activity at ASD Airsoft Frosinone and Fab LAB Frosinone, he used various organizational skills.

VOLUNTEERING

Sports and hobbies He is **president** of a sports association where he learned how **relationships** between people are essential in **working and philanthropic projects**.

Visionari

VISIONARY is a network of entrepreneurs, scientists, artists, writers, and changemakers who think and act out of the box. It is a voluntary organization with an educational purpose. It officially acquired the status of a non-profit organization (ETSAPS) in March 2018

<http://visionari.org/> <https://medium.com/visionari>
<https://www.facebook.com/VISIONARIORG/>

Public water committee

He has helped the "public water committee" for several years in the province of Frosinone

Politics

He ran for municipal elections in the municipality of Torrice under the M5S list and with lists close to the M5S and never party lists.

Former Candidate Councilor Spokesperson M5S Meetup Torrice (Frosinone).

Former Primary Candidate for Mayor M5S Torrice (FR).

Drafting and graphics of the 2013 electoral program M5S Torrice(FR).

Organization of public events, scenography, audiovisual, graphics and logistics.

Organization of streaming logistics for provincial events and management of the respective channels. Ustream, Youtube Wirecast, LiveStream, Google Hangout.

Graphic organization, maintainer and co-maintainer of Meetups, Facebook pages and sites of the Movement (www.ciocitaria5stelle.it)

Development of graphic works for various Meetups and for the electronic parliament project, posters and information flyers, both on paper and on the web.

Creation of tutorials to bring citizens closer to a "Public Administration 2.0" such as guides on certified mail and digital signature.