



ABDEL KADER ZRAYKA
MECHANICAL DESIGN

Email: abdel_zr89@hotmail.com
Address: Clorinda, 16, Ferrara
44124, Italy
Phone: +39-3273492343
Date of Birth: 14-03-1989
Nationality: Lebanese - Italian
Link: linkedin.com/in/Abdel kader-
Zrayka/

PROFESSIONAL SUMMARY

Mechanical Engineer with 9 years of experience in design of automatic lines for the food packaging sector and plastic pipe processing, as a mechanical design. **Areas of expertise include:**

- ◆ Belling machine, haul-offs, saws, packaging
- ◆ Food packaging
- ◆ Design to cost and improvement product
- ◆ Standardization of product and materials
- ◆ R&D Engineer
- ◆ Feasibility analysis
- ◆ Autonomous & Team Player
- ◆ Verbal/Written Communication

PROFESSIONAL EXPERIENCE

PROJECT & MECHANICAL DESIGN ENGINEER

2021 – 2022

COMAV SRL DOSSO

- ◆ Mechanical design in bulk handling machine (loading and unloading Big-Bag machine, valves for pneumatic transport, emptying bags machine...,etc) .
- ◆ Product development and feasibility of machine.

MECHANICAL DESIGN

2019 – 2021

SICA ALFONSINE

- ◆ Mechanical design of automatic machine for plastic pipes processing.
- ◆ Design and development of a novel bending tube machine.
- ◆ Product development and feasibility of machine

MECHANICAL DESIGN

2014 – 2019

CT PACK

- ◆ Mechanical design on the various machines bakery, chocolate, ice cream and frozen food.
- ◆ Design and development a new version of delta Robot.
- ◆ Ability to design from a blank sheet or starting from an existing machine.
- ◆ Research and development groups of machines (frame, Robots, grippers, belts, etc.)

Visiting Researcher

2017

CIRI MAM BOLOGNA — bologna, Italy

Optimize the frame and Delta Robot by means of Elasto-kinematics analysis.

EDUCATION

Doctor of Philosophy in Engineering Science

2015 – 2018

University of Ferrara — Ferrara, Italy

Field of study: mechanical vibration.

Thesis title: On the modal parameter estimation methods critical review, implementation in Matlab environment and effectiveness.

Master of Science in Mechanical Engineering 110/110

2011 – 2014

University of Ferrara — Ferrara, Italy

Bachelor of Science in Mechanical Engineering 90/110

2008 – 2011

University of Ferrara — Ferrara, Italy

SKILLS

- ◆ Proficient in Autodesk 3D inventor CAD, Autocad, PTC creo modeling, Matlab, SAM and Microsoft office package.
- ◆ Good knowledge of SolidWorks, MSC Patran and Ansys.
- ◆ Finite element method.
- ◆ Experimental and operation modal analysis.
- ◆ Good communication skills.
- ◆ Ability to work individually and as a member in a team.
- ◆ Flexibility and ability to work in a multicultural environment.
- ◆ 3D printer.
- ◆ Design mold for sand and shell casting.
- ◆ Milling and turning.

LANGUAGES

Arabic: Mother tongue

Italian: C1

English: B2

French: A2

HONORS & AWARDS

- ◆ Full three-years scholarship offered by the Italian Ministry for Ph.D. programs
- ◆ Full five-years scholarship offered by ERGO for Bachelor's and Master's Degrees

PUBLICATIONS

- Zrayka, A.K. & Mucchi, "A comparison among modal analysis parameter extraction methods."E. SN Appl. Sci. (2019) 1: 781. <https://doi.org/10.1007/s42452-019-0806-8>

OTHER INFORMATION

- ◆ Availability to travel in Italy and abroad.
- ◆ Personal car owner.