

FILIPPO SUZZI

Avenue Giacomo Matteotti, 47027, Sarsina, FORLI'-CESENA • 3468375570 • filippo.suzzi@pec.it

Born on: 05/09/1997

Professional profile

Recent graduate in energy engineering, with a good theoretical and practical basis in solid oxide fuel cells (SOFC), gained thanks to his studies and internships. Motivated and flexible, and ready to face new challenges in a reality where i can grow and put into practice what i have learned until today.

Work and professional experiences

Intern, 10/2023 - 02/2024

Angela Gondolini - Faenza, RA

Internship at the ISSMC CNR institution in Faenza to carry out the experimental activity of the thesis work entitled "development of components for LT-SOFC cells".

Intern, 04/2021 - 05/2021

Amedeo Massocco - Borello, FC

Internship carried out at the company BOTTEGA 7 S.R.L. with support from the tutor in carrying out the activities foreseen by the training project, in solid edge drawing for the design of components for public lighting.

Instruction and formation

Master's degree in energy engineering: Energy Engineering, 03/2024

University of Bologna - Bologna

Specialist degree in energy engineering, University of Bologna, grade 110 out of 110 with honours. Degree thesis entitled: Development of components for LT-SOFC cells, carried out at the ISSMC CNR institute in Faenza. Good theoretical knowledge on steam reforming and electrolyzers in the course "Sustainable technologies for energy resources M" and on fuel cells in the course "Innovative technologies for the transport and storage of electrical energy M".

Three-year degree in mechanical engineering: mechanical engineering, 07/2021

University of Bologna – Forlì

Three-year degree course in mechanical engineering, University of Bologna, score 104 out of 110. Compilatory degree thesis entitled: "Analysis of plants for the production of hydrogen by electrolysis".

Diploma di Perito Industriale elettronico: Elettronica, 06/2016

I.T.I.S - Cesena

Diploma in Industrial Electronics Expert with a score of 96/100, at the "Blaise Pascal" technical-technological institute.

Skills and competences

SOFT SKILLS

- Predisposition for learning
- Motivation for professional growth
- Ability to concentrate
- Flexibility
- Perseverance
- PC use
- Punctuality
- Listening skills

LANGUAGE AND COMPUTER SKILLS

- Knowledge of the English language: B2 level
- Good knowledge of office package software (Word, Excel, Power Point), Matlab and Autocad (Solidworks, Solide edge).
- Knowledge of the C++ programming language

TECHNICAL SCIENTIFIC SKILLS

- Synthesis and characterization of ceramic nano-powders with ionic conductivity for SOFC applications via precipitation reaction
- Both uniaxial and isostatic pressing process for forming ceramic powders.
- Development of heat treatments (sintering) to produce dense and porous ceramic materials.
- Production technique of micrometric ceramic films for silk-screen printing for SOFC fuel cells
- Study and optimization of ceramic suspensions for silk-screen deposition.

Material characterization techniques:

- Microstructural: SEM scanning electron microscope.
- Thermal properties: differential scanning calorimetry (DSC) and thermogravimetry (TG).
- Rheology of suspensions and ceramic inks: flow curves, thixotropy.
- XRD analysis

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