



Mohamed Imad Eddine Heddar

Phd Student



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About me

Mohamed is a versatile materials science and engineering PhD student with skills in machine learning modeling, optimization and scientific computing. His dedication to continuously learning about new technologies has made him a valuable member of his research team.

Skills

Office Suite

LaTeX

Python

Comsol Multiphysics

Machine Learning

Wolfram Mathematica

Adobe Illustrator

Photoshop*3 InDesign*3 Image processing*3 Design of Experiment*3 ML Deployment with Streamlit*3

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Education

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|-----------|--|-------------------------|
| 2019 | PhD Student | ENSMM-Annaba |
| | Experimental Study and Modeling of Titanium alloys made by the additive manufacturing process - Simulation and Carcterization. | |
| 2016-2019 | Engineering Degree in MSE. | ENSMM-Annaba |
| | Experimental Contribution and Simulation to the expertise of the influence of the parameters of the damage of drawn wire (investigation of wire breakage problem during the wire-drawing process). | |
| 2016-2019 | Masters Degree in Surface Engineering | ENSMM-Annaba |
| | Modeling heterogeneous materials (micromechanical simulation of dual phase steels using real and artificial microstructure). | |
| 2014-2016 | Preparatory School | ESSAT(ex. EPST-Tlemcen) |
| | Undergraduate courses to prepare nationwide competitive exams in Technical Sciences | |
| 2013-2014 | High school | Zair Bakir-Eleulma |
| | Specializing in Natural Sciences. | |

Activities, Honors, Awards:

- | | |
|-----------|---|
| 2015 | Co-Founder of Texquad Club : ESSAT-Telemcen scientific club |
| 2016 | Winner of the ESSAT logo design competition |
| 2017 | Winner of Dorado Cerebro Start-up competition |
| 2017-2018 | President of Titanium Club |
| 2015-2018 | Graphic designer at Texquad [2015], Enigma [2017], Titanium [2016-2018] scientific clubs. |

Experience

- | | | |
|------|---|-----------------------|
| 2021 | ENSMM-Annaba Master Thesis | Supervision Assistant |
| | •Applicaiton of Machine Learning for the Prediciton of Glass Thickness Profile at MFG. | |
| | •Mechanical Simulaiton of Float Glass Process. | |
| | •Simulation of Indenter Contact with the Surface of a Dual Phase Steel in Nanoindentation Experiment. | |
| 2020 | ENSMM-Annaba Lab Work | Assistant |
| | •Image processing lab work "Quantitative analysis of microstructures during their phase transformations". | |
| | •Micromechanics, Local mechanical behavior of heterogeneous materials: Application to dual phase steels. | |
| | •Texture analysis of deformed metals using MTEX. | |
| | •Mechanical testing and Simulation of metals using of Comsol. | |
| 2019 | TREFISOUD | Intern |
| | •Investigated a wire breakage problem. | |
| | •Analyzed the fabrication process and its parameters. | |
| | •Proposed several solutions to the wire breakage problem. | |
| 2018 | TREFISOUD | Intern |
| | •Studied wire-drawing technique and some other processes. | |
| | •Interacted with different lab devices. | |
| | •Handled some IT problems. | |
| 2017 | National Company for Measuring and Controlling Devices | Intern |
| | •Got introduced to the industrial world . | |
| | •Explored the hierarchical organization of the company. | |

Languages

Arabic (Mother language), English (IELTS Score Band 7) and French (TCF-SO C1).

Interests

Science, Engineering , Data Science , Computational Materials Science, Graphics Design, swimming and jogging.