

Jérémy Ducla

Looking for a Product Engineer position



PERSONAL PROFILE

Mechanical Engineer, and son of a farmer, I am looking for a **engineering position** from **September 2023** in the field of agricultural machinery in order to start my professional career.

EXPERIENCES

JOHN DEERE Design office intern

January - July 2023, Arc-Lès-Gray (70)

- Member of the Continuous Improvement Division
- Problem Detection - Theoretical Analysis
- Stress analysis - Finite elements
- Prototyping - Field tests
- Industrialization - Feasibility - Costing

MONOSEM Design office intern

July 2021 - January 2022, Largeasse (Fr-79)

- Member of the Continuous Improvement Division
- Problem Detection - Theoretical Analysis
- Stress analysis - Finite elements
- Prototyping - Test bench creation - Field tests
- Industrialization - Feasibility - Costing - After-sales service kit

Feros Farmhand

Summer 2018/2019/2020, Commensacq (Fr-40)

- Farm worker during the summer seasons
- Management of foreign teams - 2018/2019
- Hoeing of 400ha of beans, Tractor driver, maintenance - 2020

EDUCATION



University of Technology of Troyes

Engineering diploma : 2018 - 2023, Troyes (France)

- Engineering training in Mechanical Engineering
- Specialised in Design and Industrialization of Mechanical Systems in relation to the Environment
- Study and sizing of mechanical systems. Finite element modeling
- Mechanics of materials and structures, fluid mechanics
- Mechanics of non-deformable solids and solid continuous media
- Thermodynamics, thermal machines and mechatronic systems



University of Newcastle

Exchange semester : Summer 2022, Newcastle (Australia)

- Computer Aided Engineering and Manufacturing
- Advanced Fluid Mechanics and CFD
- Geothermal, Hydro, Ocean and Hybrid Systems



Cegep of Trois-Rivières

Exchange semester : Winter 2020, Trois-Rivières (Canada)

- Metallurgy - Aluminum, Steel, Cast Iron
- Collaboration with the Metallurgy center of Quebec (CMQ)
- Material properties, crystallographic analysis, casting/foundry processes
- Mechanical testing and radiography of castings and welded parts



High School

High School Diploma : 2018, Aire-sur l'adour (France)

- Merits, Specialised in Engineering Sciences and Mathematics

LANGUAGES

- French : Mother tongue
- English : Linguaskill Business B2+ / TOEFL IBT 93/120
- Spanish : USUAL esPro B1+ certification

SKILLS

- Agricultural environment: Son of a farmer - Passionate about machinery
- 3D design: CATIA, Inventor, Creo, SolidWorks, TopSolid
- PLM : Windchill / ERP : Sage X3, GBOM
- Finite elements: Abaqus, Inventor Nastran, Ansys Workbench
- Code: Python (Sizing), LaTeX (Writing), C++ (Arduino)
- Office software applications: Office 365 Pack, Adobe Suite

HOBBIES AND INTERESTS



ACCOMPLISHMENTS



VIVESCIA The farm of the future

January - May 2019

- Creation of a model representing the farm of the future
- Wooden structure with automatic LED backlight
- CAD, CAM, welding, Arduino programming



Big Bird Hydrogen airship

May 2021

- 3D modeling of the rear ball head of an airship
- Prototyping: 3D printing
- Mounting tests with electric motors

CONTACT INFORMATION



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23, International driving licence

