Clarence LINDEN
Versatile engineer

Profile

Dynamic and methodical, I like to carry out large-scale projects. I work a lot in a team, sometimes as a leader, to solve the problems that are asked of me. Versatile, I have know-how in several fields, mechanical engineering or computer science.

Curriculum

I want to be the most versatile engineer possible, by training my mindset of engineer and the soft and hard skills that go with it.

2022-2023 : EPFL, Switzerland
MSc in Mechanical Engineering
Specialisation in design
Computer science minor

2021-2021 : Postech, South Korea
Internationnal exchange
Intercultural projects

2018-2020 : EPFL, Switzerland
BSc in Mechanical Engineering
2015-2017 : French Baccalaureate
Science of engineering, spe. Math

Experiences

2022, 350h : Robotics competition
High level robotics competition, build a robot from the ground up
Head of a team of 3 : Manage human resources, diverse team
Personnal parts : Software and mechanical design
    Computer vision (deep neural network, synthetic database creation)
    Mechanical prototyping (build a robot from the ground up)
    50+ 3d printed parts
Python + Fusion 360

2021, 250h : Capstone design : wheelchair
Design of a new type of wheelchair
Designated leader and head of the team
Budget of 2.000.000 Won
CAD modelization on Solidworks
Manufacturing techniques

2010-now, 500h : Workshop & manual work
10 years of experience
Motorcycle, bicycle maintenance
Metal work : Lathe, Milling, Soldering
3D printing : PLA, PETG, FLEX, 100+ parts
Wood work : furnitures, frames

2018, 200h : Oriented solar panel
Orientation towards engineering :
Design of a fully functional sun oriented solar panel, with 2 rotation degrees (Wood frame + 2 motors + arduino controler)
CAD + FEM simulation on Solidworks

2015, 130h First school projects
Head of R&D and production
Mini business, team of 5 to manage design of a portable wallet
R&D of the product
design of manufacturing processes

2023, 110h : Create Lab project
Kinematic design semester project
Passively walking bioinspired animal
Tendon and joint design
Data driven, PCA design

2023, 250h : EPFL Racing team
Open design project, fluids, thermodynamics
FEM simulation on COMSOL
Design, testing, manufacturing
Data driven design

2022, 130h : Bin collection design
Head of a team of 4
Budget, Time, human resources management
Gantt charts, Functional analysis, ideation ...
Design of an organic bin collection system
CAD model on CATIA

2019, 120h : Portable seeder project
Design of a portable seeder, adjustable geometry
Accomodate several types of seeds
CAD modelization on CATIA stress strain analysis,
Team work management and optimisation.

Hardskills

Layout & office Latex/Excel — 12 years - 200 hours

Programming Python/C/JS/Matlab — 12 years - 1300 hours

CAD Solidworks/CATIA/Fusion — 8 years - 1000 hours

Graphic design Illustrator/Photoshop — 6 years - 150 hours

CFD-FEM COMSOL/ANSYS — 7 years - 500 hours

Softskills

Focused on team work
Experienced team leader
Competitive, objective minded
Efficient and reliable
Love my work and engineering

Contact

2023 route du lac
73370 Bourdeau France
+33 7 87 83 88 95
clarence01@orange.fr
in Clarence LINDEN

clarencelinden.com

Timeline

Build my own watch (24)
Selected specific compenents
Fully skeletonized
Design and manufacturing
of my own adapter

EPFL 2022-2024 (23)

Volley ball competitions
Strong team spirit
Fast paced team organisation

Postech 2021-2022 (22 / 21)

Video editing
Editing and promotion for the
Mechanical engineers association (20)

EPFL 2018-2020 (19)

High level sports
4 French artistic gymnastics
championships participations
teams of 6 (18)

High School 2015-2017 (16)

Sports daily
More than 20h of sport/week
Diversification of the sports

Living in Canada
Different way of life
New experiences (14)

School 2001-2014 (10)

Living in South Africa (06 / 01)
Discoveries of new cultures
All classes are in english

20XX

SPOT prototyping coach (24)
Helping students
Machining (mill, lathe)
3D printing

Teaching assistant (23)
Physics, Analysis
Mechanical engineering
Willingness to help

Graphical design (21)
2 semesters of graphical design
Group project
2 times 6/6

Graphic design, best SHS poster (20)
More than 1500 students
500 CHF won, grade of 6/6
Presentation to 1500 students

Baccalaureate, highest honors (19)
In Engineering science
Speciality mathematics
GPA of 18.34/20.00
20/20 in mathematics
20/20 in engineering sciences

Recreative programming (14)
p5.js artificial intelligence
Python game coding

Graphic designer AGEPOLY (24)
Graphic poster design
Main school association
Communication team

Computer science minor (23)
Broader experiences
Learning different languages

Programming (22)
Matlab extensive use in 5 courses
Labview and C Sudoku OCR

Discovering university (20)
Major : Mechanical Engineering
GPA of more than 5/6
5.5 in Lin. Alg. - 5.25 in physics

2nd professionnal experience (18/16)
Employed at ECOLOAD
Electronics and manufacturing
of solar charging stations
Mechanics in the workshop

1st professionnal experience (14)
Employed at PMS
Website developement
IT maintenance

First programming on Excel
First codes on visual basic

Internationality

Lived
Visited

Comments

Languages

French   native
English   fluent - IELTS 7.5 - C1/C2
Spanish   scholar - B1
Korean   basic

Hobbies