A Portfolio
to enhance my new learned skills

Application on
Innovative and Secure IoT systems – MSIoT

Sommaire

PART A: GENERALITIES

A.I. PRESENTATION of PORTFOLIO

This document must make explicit with reference to the competency framework of this training, the knowledge and skills acquired by my experiences. It revolves around three modes of demonstration of your experience:

1. A descriptive part about my experiences connected to this training; the expected level of description is not a simple enumeration of tasks or facts but a real appreciation of the context in which I carried out these activities.
2. A technical part based on the presentation of problem situations demonstrating all of my knowledge in the field of this training
3. An analytical part that will be the result of the work carried out and which will present all the skills acquired.

The portfolio will be submitted to the jury. An oral defense of my portfolio and an exchange will be held with the same jury that will seek the adequacy between my achievements and the requirements of this training.

The construction of this portfolio, through the work of explanation, taking back and projection it requires, is a real training project.

A.IV. PRESENTATION OF MY CURRICULUM

A.III.1. IDENTIFICATION

Personal Information:

LAST NAME and First Name: PIACENZA Giuseppe

Age: 24 years old

E-Mail: piacenza@etud.insa-toulouse.fr

A.III.2. CURRICULUM VITAE

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A.III.3. YOUR ACQUIRED TRAINING

In this part I will explain in as much detail as possible my training course.

Quote trainings or lessons most related to the PTP

Entitled	Organism	Year	Duration (in number of hours)
Smart Devices	INSA de Toulouse	2018-2019	60.25
Sensors introduction			
Microcontrollers and Open-Source Hardware (M&OSH)			
Optical Sensors			
CAD, Manufactiuring and integration of nano-technology sensors			
Analysis and data processing, business applications	INSA de Toulouse	2018-2019	37.5
Software Engineering			
Semantic Data processing			
Processing and Analysis of Data : Big Data Principle			
Innovative project	INSA de Toulouse	2018-2019	80.75
Interdisciplinary Project and Project Management			
English Course			
Innovation and Humanities	INSA de Toulouse	2018-2019	95.5
Innovation / Social Acceptablity / Business development			
Creativity methods			
Team Management			
Security	INSA de Toulouse	2018-2019	50.5
Merkathon	Observatoire océanologique de Banyuls-sur-Mer	2018	48
FLE (Français Langue Etrangere)	INSA de Toulouse	2018	40

PART B: DESCRIPTIVE PART

INSA TOULOUSE

B.I. PRESENTATION OF EXPERIENCES LINKED TO THE TRAINING

In this part I will mention all the experiences that I consider relevant to my field of studies and that have been useful to improve my knowledge of specific arguments. Those experiences will be described in detail in the further section.

Summary table of the whole course			
DATE (from…to…)	**DURATION**	**CONTEXT**	**FUNCTION(S)**
15/03/2017 to 29/09/2017	6 months	Optimization of a plasmonic nano-antenna using COMSOL Multiphysics	Building the model of a plasmonic nano-antenna on COMSOL Multyphisics and optimizing the performances of the device thanks to iterative variations of parameters.
8/11/2018 to 9/11/2018	48 hours	Contest Merkathon at	

Proposed frame:

B.II. Title of Experience N ° 1

The description of the experience should not be an enumeration of your activities but a descriptive and detailed study of your functions and tasks in a given context. For each of these experiences, we ask you to describe successively:

B.II.1. The environment and context

Specify the economic environment in which you have evolved, the organization, its sector and field of activity,

Explain the assigned missions, your contribution to the overall production.

B.II.2. your function

Analyze in a few lines your function in terms of missions or activities.

END OF INSTRUCTIONS (to be deleted later)

PART C: TECHNICAL PART

NOTES (to be deleted later)

During your journey, you were confronted with problem situations (technical problem solving, strategic choices ...) during which you had to implement a relevant practice to achieve a desired result.

We propose to describe these situations that you had to solve. The chosen problem situations must highlight the technical knowledge you have developed in direct relation to the Training.

Express yourself in terms of "I": "I started with, I searched, I tried to". You will reproduce the proposed frame for each problem situation developed:

C.I.1 Presentation

Present the situation by specifying the context, the field of responsibilities, the actor (s), the objectives to be reached, the resources and the constraints (human, material, financial, informational ...), the duration and the dates.

C.I.2. Resolution of problem

Explain the chosen solution by answering the following three questions:
"What": the description of the solution; "How": the way to go about it and "Why": the justification of your choice

C.I.3.The knowledge and skills mobilized

What new skills did you have to mobilize and develop to solve this problem? How did you acquire them (reading, training, peers)?

C.1.4. Summary and Review

Make a synthetic summary of the situation-problem. To conclude, it is a question of taking stock by answering the following questions: what lessons have you learned from this experience? Today with hindsight, what analysis of the proposed solution do you make?

END OF INSTRUCTIONS (to be deleted later)

PART D: ANALYTICAL PART

D.I. ANALYSIS OF SKILLS

You have presented the significant experiences related to the training. You also presented several problem situations where you explained the acquired knowledge and the skills mobilized to solve these problems.
In this last part, it is for you to make an exhaustive analysis of all the knowledge and skills acquired during these different experiences.

In the table below, for each activity, specify your level of execution corresponding to the appropriate figure using the following criteria:

AP- level of application: follow-up of instructions or procedures
AN- level of analysis: improvement or optimization of solutions or proposals
M - level of proficiency: program design or specification definitions
EX - level of expertise: definition of orientations or strategies

Activities	**Acquired experience in terms of** 1. theoretical, technological knowledge, 2. operational know-how, and relational, 3. intellectual steps 4. other skills related to a given position	**Modes**[1]	**Level (AP to EX)**

D.II. SELF EVALUATION

- Make a summary of the skills you think you can use with the training.

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- Possibly what skills are still missing?

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D.III. BALANCE SHEET

- What contributions do you draw from the in-depth analysis of your experiences in building your portfolio?

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D.IV. COMPLEMENTARY ELEMENTS

- Are there additional elements that you wish to communicate to the jury?

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ANNEXES

[1] Main acquisition methods: Initial training (IT), peer exchange (PE), self-training (ST), professional practice (PP)