

Internet of Things

From the Thing to the Cloud



Witekio

EMBEDDING SUCCESS

Nicolas BESSON
Smart Objects System Architect

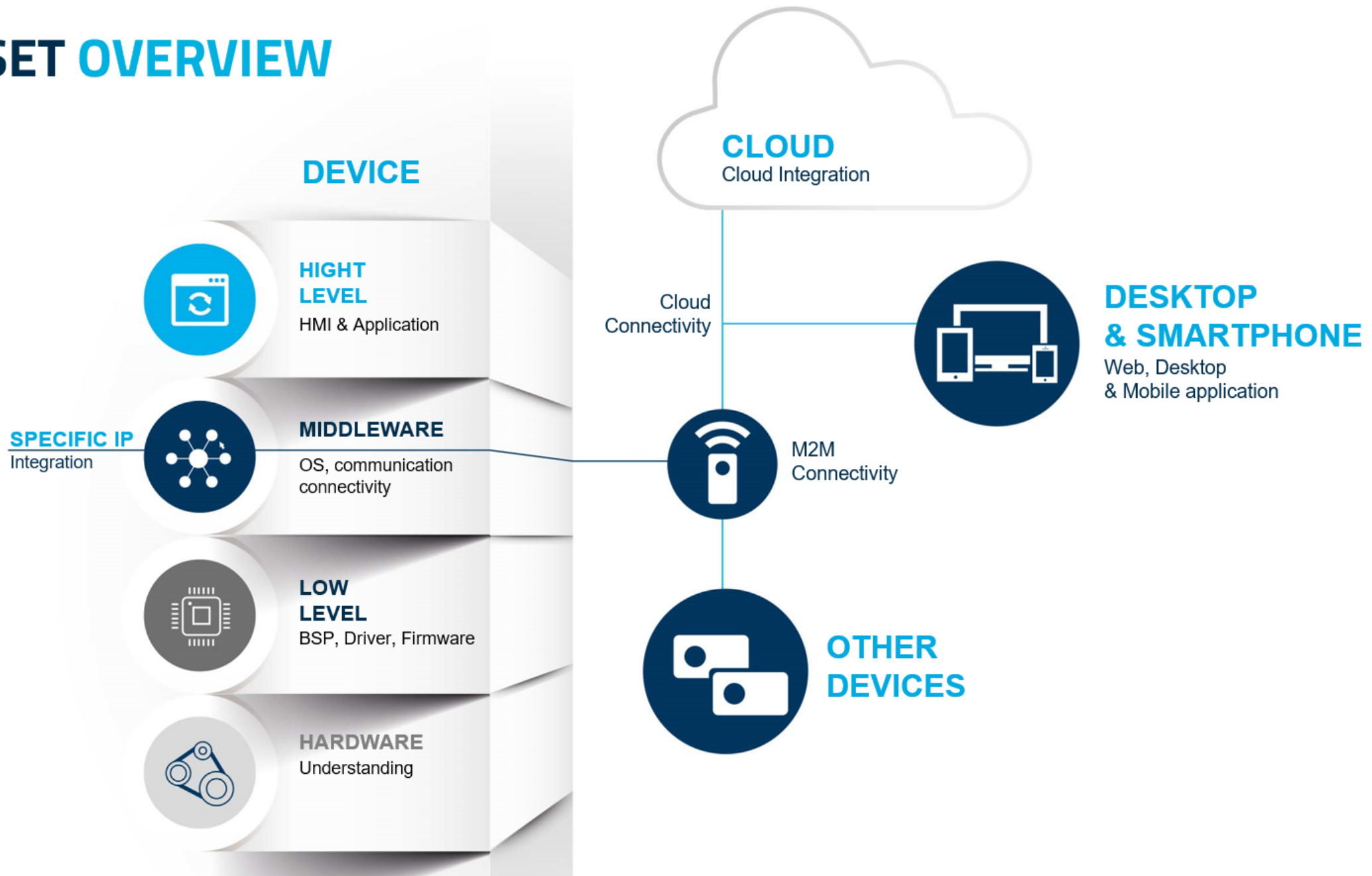
March – May 2019



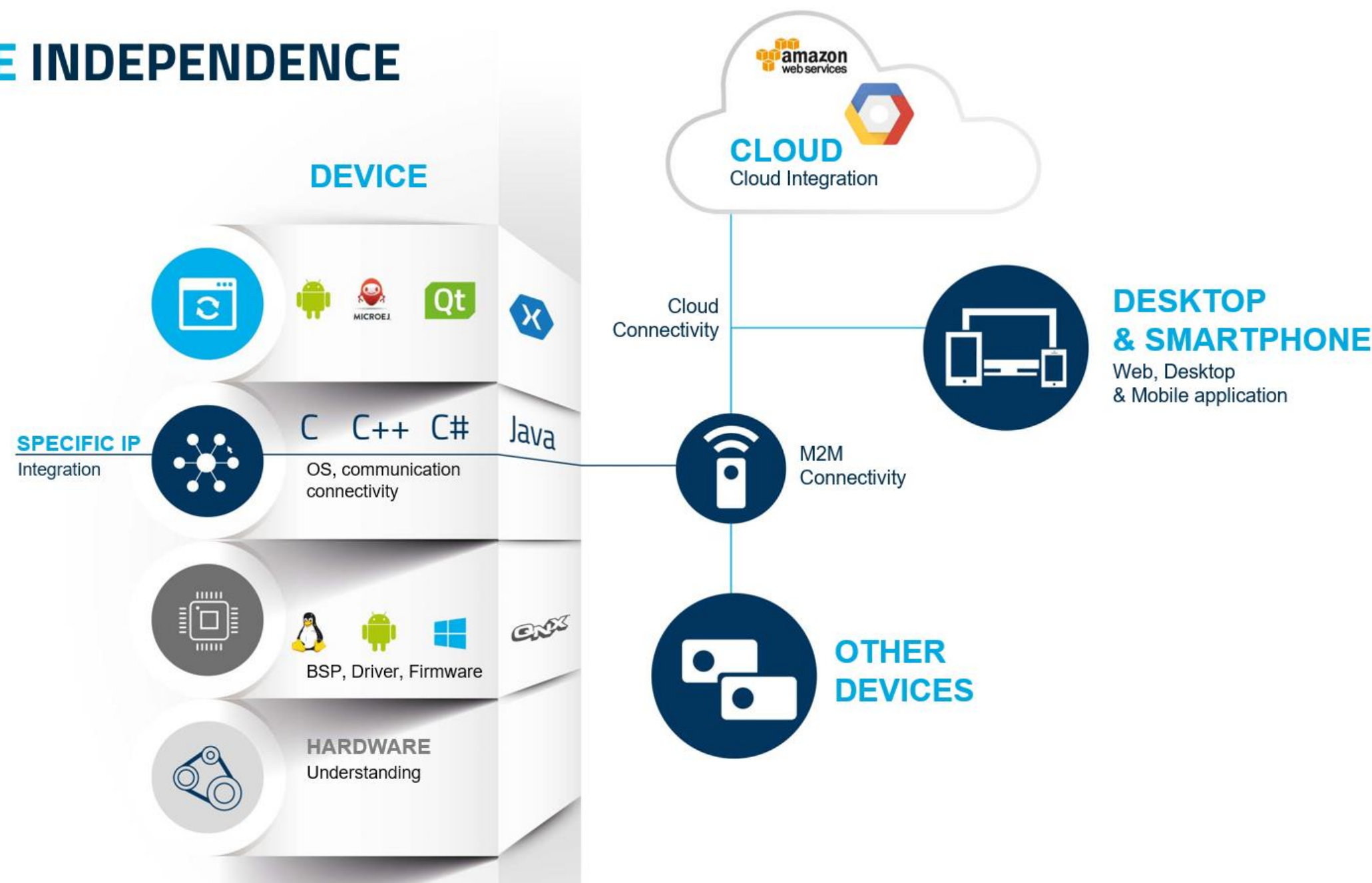
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OUR SKILLSET OVERVIEW



SOFTWARE INDEPENDENCE



Prerequisite



Prerequisite

Personal Training on :

- Base of Language C : <https://www.lynda.com/C-tutorials/Start-your-C-essential-training/772324/5009121-4.html>
- Base of Javascript : <https://www.lynda.com/JavaScript-tutorials/Learning-JavaScript-Language/782146-2.html>
- Base of HTML : <https://www.lynda.com/CSS-tutorials/Examining-your-HTML/182174/193660-4.html>
- Usage of Git : <https://www.lynda.com/Git-tutorials/Up-Running-Git-GitHub/409275-2.html>

Tools

- VMWare Workstation Player 15 (Evaluation): <https://www.vmware.com/fr/products/workstation-player/workstation-player-evaluation.html>
 - MAC User needs to get VMWare Fusion for Mac
- Adobe Acrobat Reader DC: <https://get.adobe.com/fr/reader/>
 - If you are able to read this document, it means that you're all set 😊

Session Virtual Machine

- Download the VM from our file server
 - Link : <https://files.witekio.com/dl3031587317>
 - User password is Witekio

Gettings ready for Team Work

Build your Team

- You are 32 students registered for this training session
- Find two other guys to build a 3 members Team
- Only two of you will be in Duo

Repository

- Create a free account on git hub <https://github.com>
- Create a private repository : Ynov-IoT-Training
 - ie: <https://github.com/NicolasBesson/Ynov-IoT-Training/>
- Add other team members to the repository collaborator list
 - <https://github.com/NicolasBesson/Ynov-IoT-Training/settings/collaboration>
- Add myself as a collaborator
 - NicolasBesson

Drop me an email at nbesson@witekio.com when done.



Agenda



Agenda

Day 1 to 5:

- Introduction to the Internet of Things
- Architecture of a Thing
- Labs: The Sensor, The Gateway, The Cloud, The IoT Edge, ThingsBoard

Day 6 to 11:

- The IoT Project

MARCH2019

Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
25		26		27		28		1		2		3	
4		5		6		7		8		9		10	
11		12		13		14		15		16		17	
Introduction to IoT													
18		19		20		21		22		23		24	
25		26		27		28		29		30		31	
1		2		3		4		5		6		7	

APRIL 2019

Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
1		2		3	Lab Object Lab Gateway	4	Lab Cloud Project Identification	5		6		7	
8		9		10		11		12		13		14	
15		16		17	IoT Protocols Project Management	18	Cloud, IoT Edge Lab Docker	19	ThingsBoard Lab ThingsBoard Theoretical Exam Pitch Project	20		21	
22		23		24		25		26		27		28	
29		30		1		2		3		4		5	
6		7		8		9		10		11		12	

MAY 2019

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
29	30	1	2 Project	3 Project	4	5
6	7	8	9 Project	10 Project	11	12
13	14	15 Project Oral Presentation	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	1	2
3	4	5	6	7	8	9

Evaluation



Evaluation

Labs Coeff 2
Exam Coeff 1

- Labs
 - All source code MUST be stored on a git repo
 - \Lab_01\<Lab 01 files>
 - \Lab_02\<Lab 02 files>
 -
- Theoretical Exam
 - QCM on the topics covered so far



Evaluation

Projet Coeff 3

- Project Pitch Document
 - Product description
 - Product use cases
 - Planning
 - Over
- Oral Project Pitch (5 minutes + 5 minutes)
 - Convince me
- Project realization
 - Source code review
 - System architecture
 - Daily follow up
- Project Presentation (25 minutes + 5 minutes)
 - Project completion
 - Power Point Presentation
 - Technical knowledge



Accountability & Commitment

Up to date expertise

Agility & Scalability

Reliability

Local Teams

Worldwide presence

Global Actions

Compliance with customers teams

Thank you



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