26G MENTOR-MENTEE TRAINING PLAN

NOV 2017 – NOV 2019

DATE: NOV 27, 2019
MENTEE: KHA TRAN (2042)
MENTOR: LOC PHAM (1870)
SYSTEM SOLUTION 32 GROUP
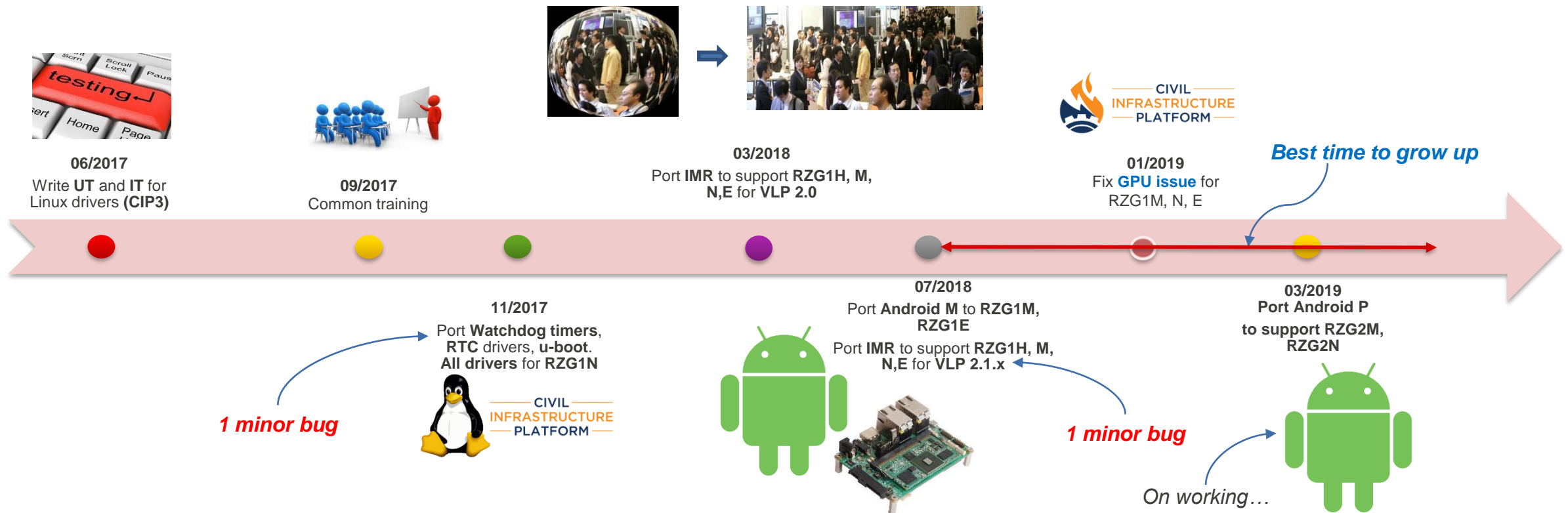RZ/G TEAM

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LOOKING BACK AFTER 2 YEARS IN RVC

06/2017
Write **UT** and **IT** for Linux drivers **(CIP3)**

09/2017
Common training

03/2018
Port **IMR** to support **RZG1H, M, N,E** for **VLP 2.0**

01/2019
Fix **GPU issue** for RZG1M, N, E

Best time to grow up

11/2017
Port **Watchdog timers**, **RTC** drivers, **u-boot**. **All drivers** for **RZG1N**

07/2018
Port **Android M** to **RZG1M, RZG1E**

Port **IMR** to support **RZG1H, M, N,E** for **VLP 2.1.x**

03/2019
Port **Android P** to support **RZG2M, RZG2N**

1 minor bug

1 minor bug

On working…

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TARGET & ACHIEVEMENT

TARGET

- My target: Become **Coding Engineer Level 2** with below skills:
  - Could **manage** and **create** my own plan to finish tasks **well**.
  - Could do **similar** tasks **without** support and **parallel** task with **a little bit** support from mentor.
  - Could **support** new members to do their task.
  - **Be able** to work well in team and can suggestion solutions for tasks in RZ/G team.

ACHIEVEMENT

- Now I am **Engineer level 2**. What did I achieve
  - **NO** delay in any tasks after 2 years.
  - **Less** bug when doing tasks. Only **2 minor bugs** after 2 years.
  - Could **guide** and **support** colleagues in their work. **Especially** for Android and a little bit about development environment: **yocto recipe**, **Linux kernel**.
  - Could work **independent** and do **NOT** need support from mentor anymore. (Android task).
  - Could **manage** and **create** my own plan to finish tasks **well**.
  - Be able to **share** opinion and **discuss** about Android plan and task assignment.
  - Could work well in team (Teamwork). Could discuss, support, share task among Android team.

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CURRENT STATUS

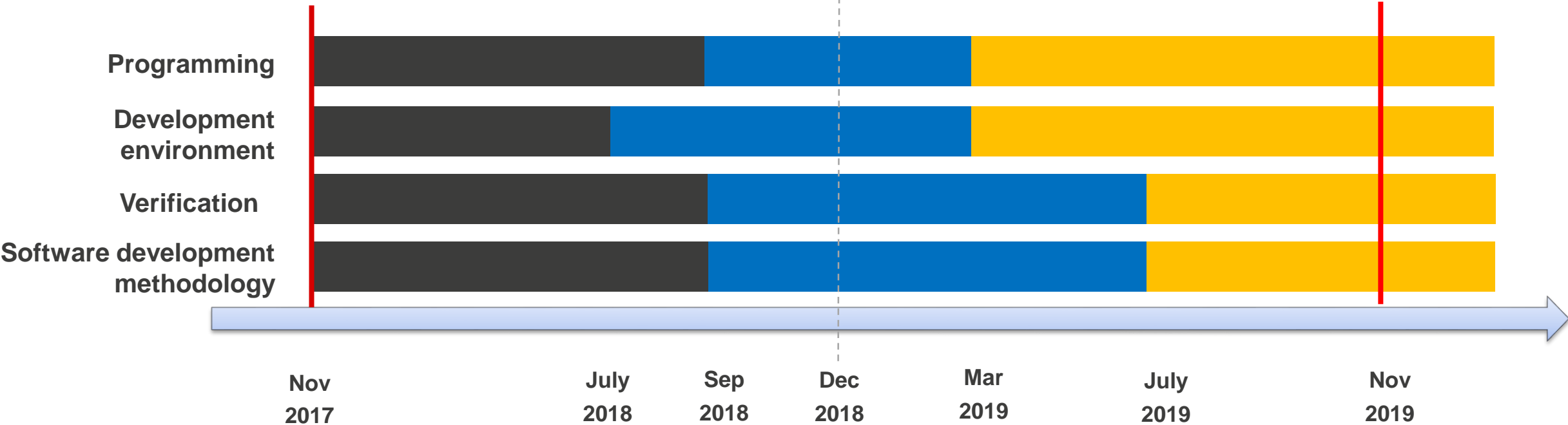|	
Need more time to investigate and understand input. Can do simple tasks with helps from mentor. Need mentor to monitor output from mentee and verify mentee's knowledge.	**Level 1**
Can do similar tasks with small helps from mentor or other members. Can do new tasks, but need helps from mentor	**Level 1.5**
Can do similar tasks without helps from mentor or other members. Can do task independently with hints and suggestions from mentor or other members	**Level 2**

First presentation · Mid-term presentation · **Final presentation**

- Programming
- Development environment
- Verification
- Software development methodology

Nov 2017 · July 2018 · Sep 2018 · Dec 2018 · Mar 2019 · July 2019 · Nov 2019

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CURRENT STATUS(1/3)
TECHNICAL SKILLS

Programming

- Have good knowledge about C language and bash scripts when doing porting drivers/modules task in Linux such as: u-boot, watchdog timer…,etc.
- Have **sufficient knowledge** about C++, Java language to work with Android tasks.
- Can develop simple Java application to improve Android OS.
- Be able to **review** and **improve** Android features like **Camera**, **Bluetooth HAL**,…etc.

Development environment

- Can understand and modify recipes of RZ/G environment in Yocto.
- Understand **whole RZ/G Android system**: Kernel, bootloaders, device configuration, HAL,…etc. Have **sufficient knowledge** about **Android framework.** Can **guide** and **support** new members in their Android tasks.

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CURRENT STATUS(2/3)
TECHNICAL SKILLS

Verification

- Have intermediate skills in debugging method, can use some ways to debug such as: using lauterbach debugger to read/write runtime, non-runtime register to analyze and fix bugs, using PVR_tune for android to analyze CPU, memory load, using some simple debug function like printk, pr_info to debug simple issue on Linux…,etc.
- **Good** at debugging Android issues. Could **suggest** more **ideas** to support colleague to debug Android issues.
- Could **review** and **create** test case and **perform** it to verify Android features.
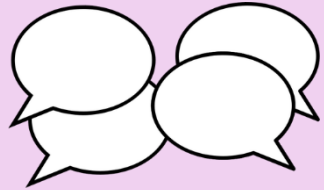
Software development Methodology

- Have **good** skills to analyze and investigate the task assignment before starting. It includes: investigate task requirement, create **own plan**, set **priority**, **do** and **review** result **every** weeks. I **always** follow this method to arrange and do the task well.

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SOFT SKILLS

Communication

- Can **communicate** well with others colleague.
- Can **explain** my idea **clearly** to others colleague.
- Always try to discuss and support new members in their work. Especially for Android tasks.
- For English, reading, listening skill is acceptable. and writing skill still need to improve more.

Management

- Can **do** and **manage** task well. Can **guide** new members and also **support** to debugging **difficult** issues.
- Can discuss and share opinion about Android plan and task assignment: **classify**, **evaluate** and set **priority** for each task with the **deadline**.
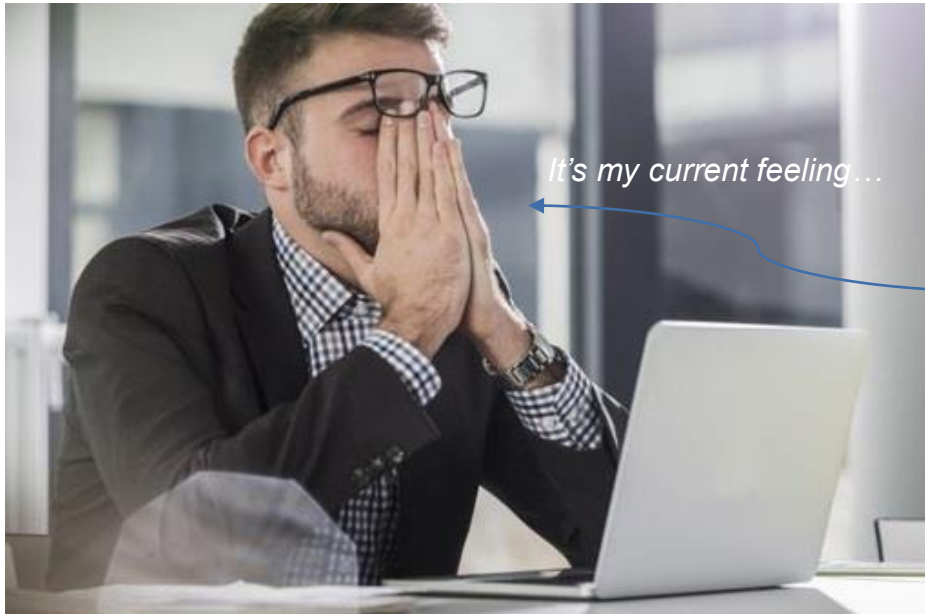
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DIFFICULTIES & SOLUTIONS (#1)

- **Category:** **Development environment**

- **Problem:** The development environment is huge and complex. Some Android parts (Android graphics, OMX) are close source.

- **Impact:**

  o With some difficult issues, I must take **more time** to investigate whether it is issue from close parts and ask REL to support. Because we have **NO** source code and **NO** experience.

  o As mention, the Android environment is huge. So I do NOT have deep knowledge to handle difficult tasks well.

- **My actions:** Take time to read and learn about the concept and workflow of graphics, codecs. Even though it is close source, we can still learn frameworks parts to understand basic workflow.

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DIFFICULTIES & SOLUTIONS (#2)

It's my current feeling…

- **Category:** Management
- **Problem:** The Android task is **TOO** big and require to do many tasks. But there are **ONLY** 3 members who are assigned to this task. Lack of resource. So I must do **many tasks** to finish the release well.
- **Impact:** Must do tasks after working time to complete and prevent delay. So I feel so stress after working with many tasks for a long time. I don't have enough time to investigate deeply about android and also learn other fields: Qt, Gstreamer,...etc.
- **My actions:** Try to analyze and create clear plan and steps for each task and set target, priority for each task before doing.

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NEXT PLAN

- Become key members in Android team.

- Learn and apply new technology to improve RZ/G business.

- Be able to guide new members and support colleagues in their tasks (maybe mainly on Android tasks).

- Learn and investigate more about Android to answer Q&A from customer to improve RZ/G business.

Me, after 2 years

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Q & A

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THANK YOU FOR YOUR ATTENTION

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