



STMicroelectronics PFE Book 2025

STMicroelectronics Tunis

We are creators and makers of technology





Our vision



Our value proposition for all stakeholders

For our **shareholders**



Return value in line with our objective

Sustainable and profitable growth

For our **customers**



Provide differentiating enablers

Independent, reliable & secure supply chain

For all **stakeholders**

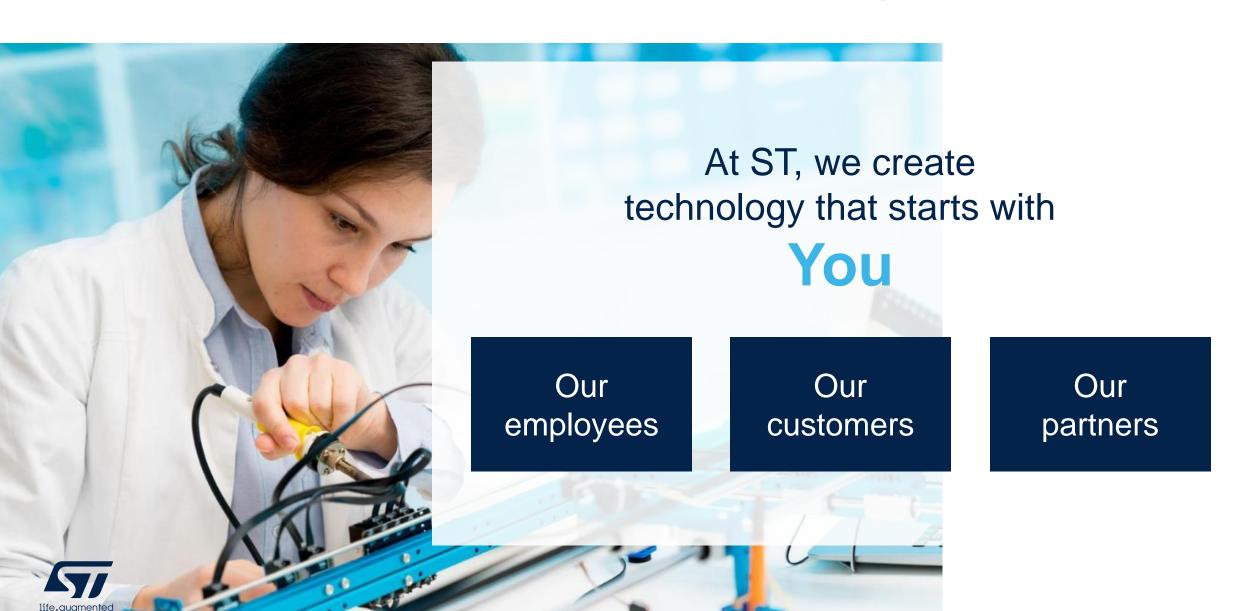


Committed to sustainability

Our values: Integrity – People – Excellence



Our technology starts with you



Where you find us



Making **driving** safer, greener, and more connected

Enabling the evolution of **industry** towards smarter, safer, and more efficient factories & workplaces





Making homes & cities smarter, for better living, higher security, and to get more from available resources

Making everyday
things smarter,
connected,
and more aware
of their surroundings





2025 – PFE Graduation Project Subjects



□ From February to August 2025 □ 6 months

JOIN US to shape tomorrow's sustainable world!

Our technology starts with you



or visit: https://www.st.com/careers





List of Projects by Department

Our Departments	Numbers of Projects
STM32 Embedded Software Development (Job Req 3391)	11
STM32 applications & support (Job Req 3405)	2
Digital Characterization (Job Req 3406)	1
Tools Department (Job Req 3395)	5
Hardware Department (Job Req 3367&3366)	2
STM32 Support Solution (Job Req 3527)	2
Sales & Marketing (Job Req 4277)	1

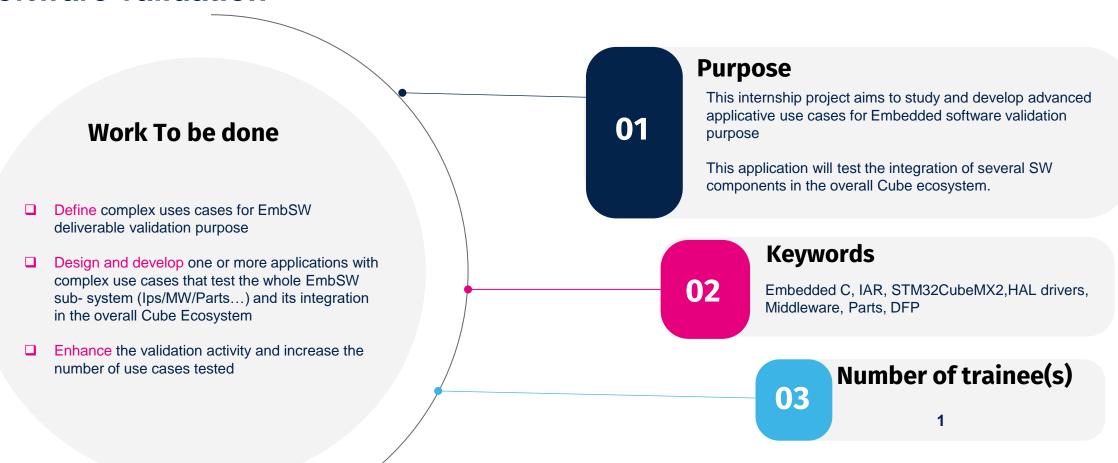


STM32 Embedded Software Development Job Req 3391



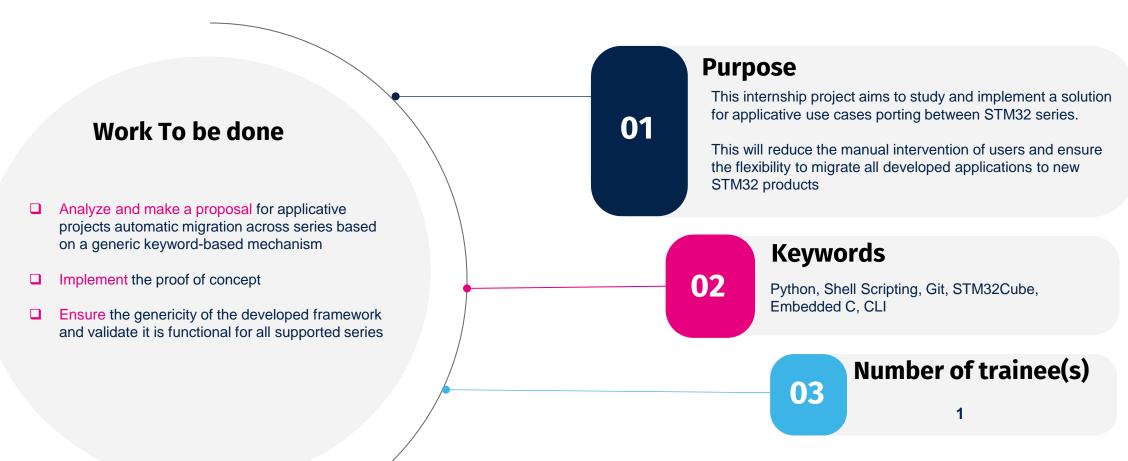


Project_ID01 : Applicative use cases development for Embedded Software validation



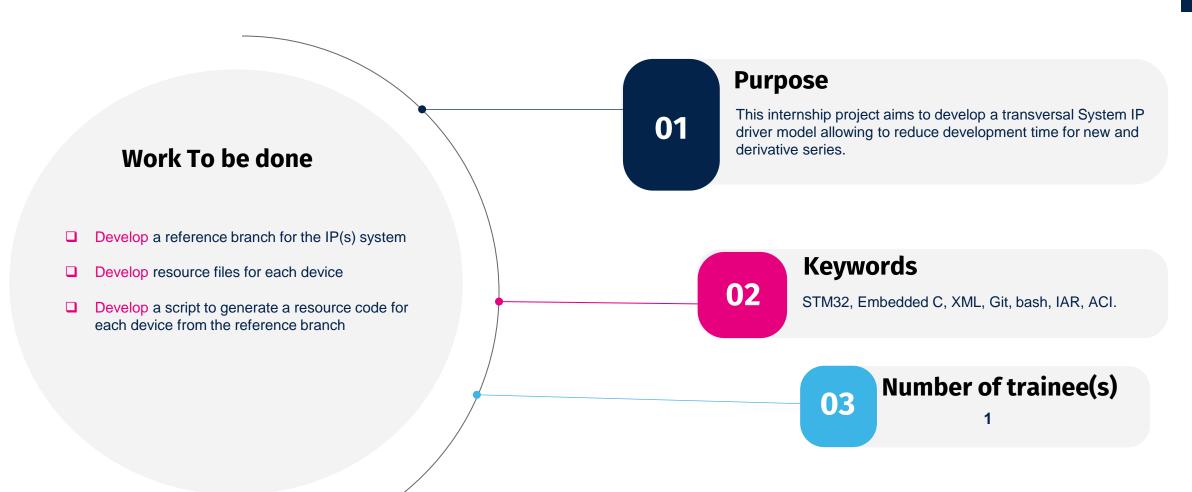


Project_ID02 : Validation Framework for EmbSW validation in a multiseries context



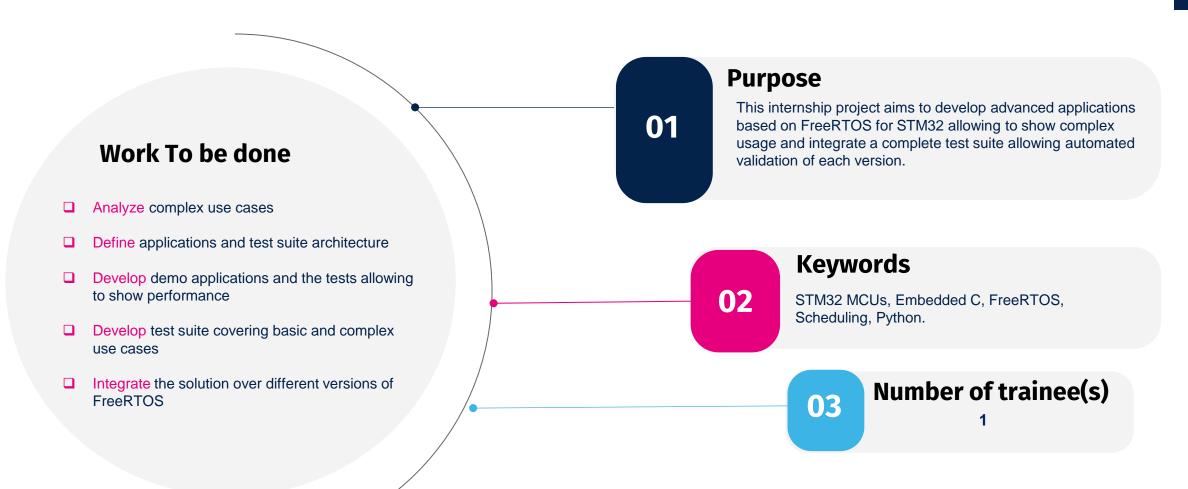


Project_ID03 : System IPs Modeling into Model 2 Structure



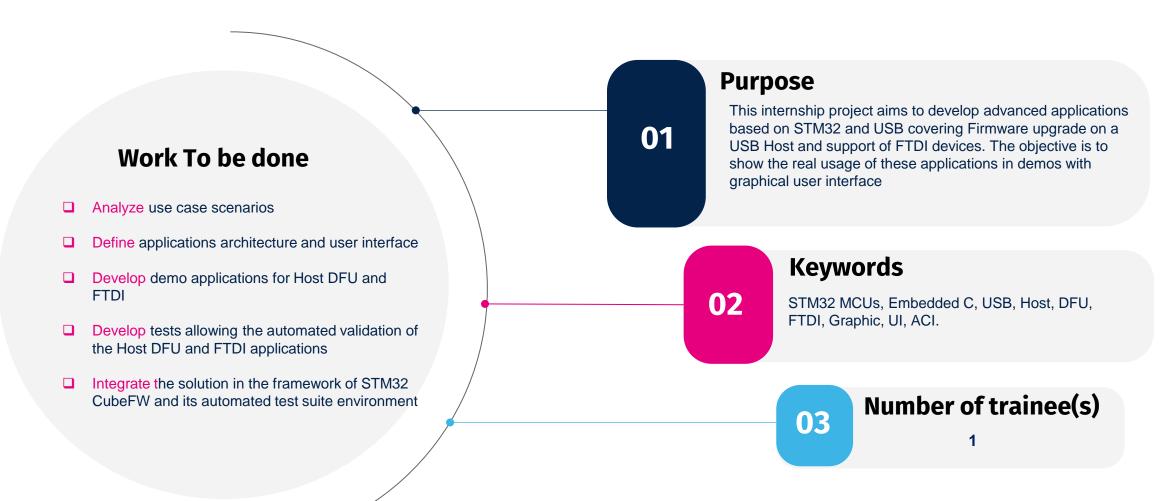


Project_ID04: FreeRTOS Advanced applications and Test Suite



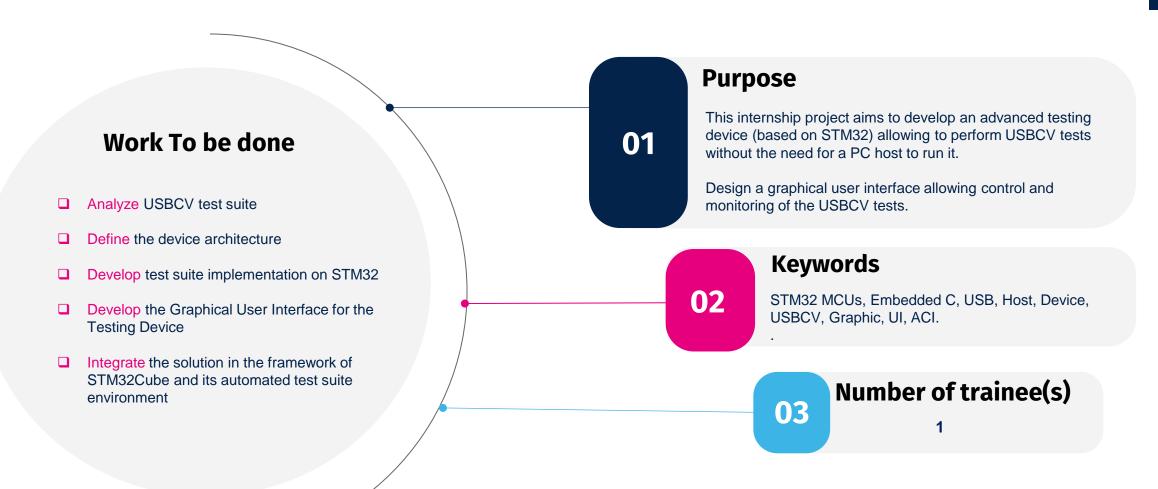


Project_ID05 : USB Host DFU and FTDI classes development



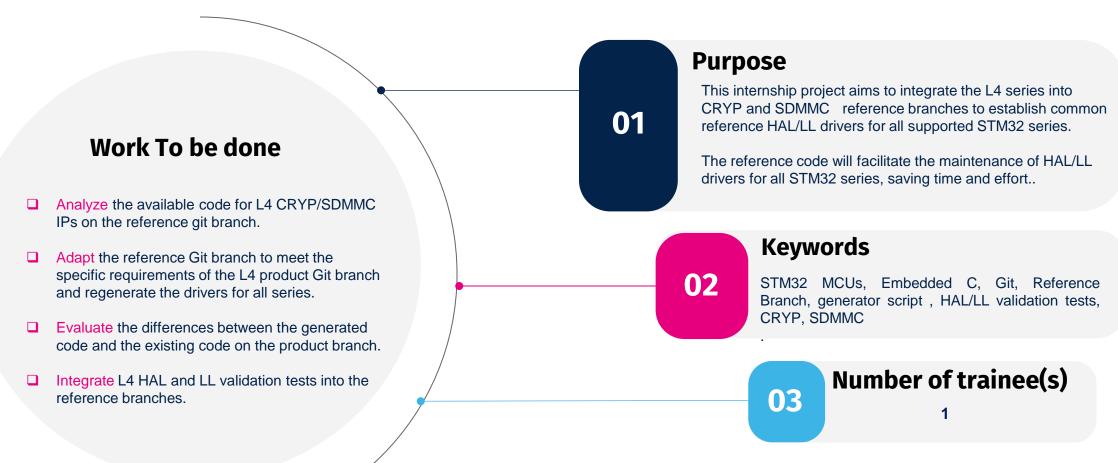


Project_ID06 : USB Advanced Testing Device (USBCV)



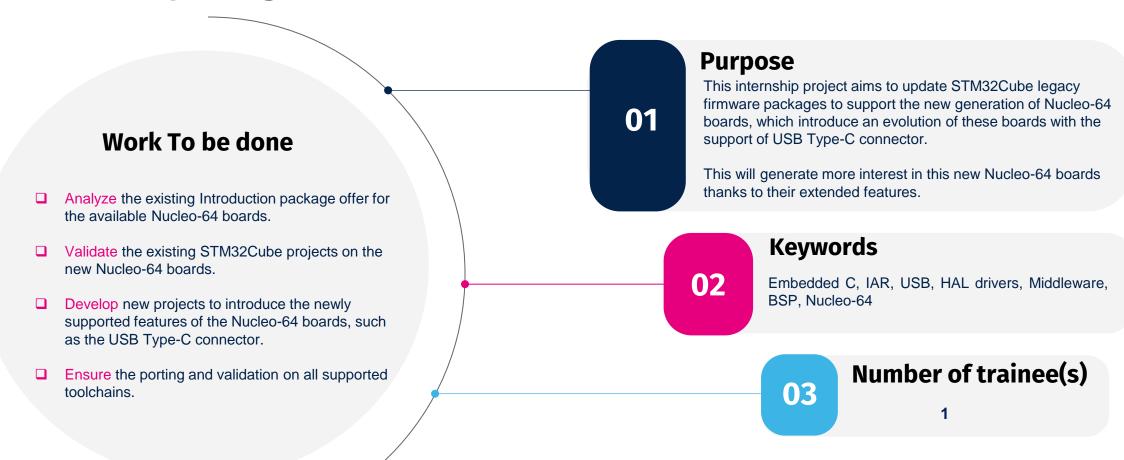


Project_ID07 : Integrate STM32L4 series into CRYP & SDMMC reference git branches



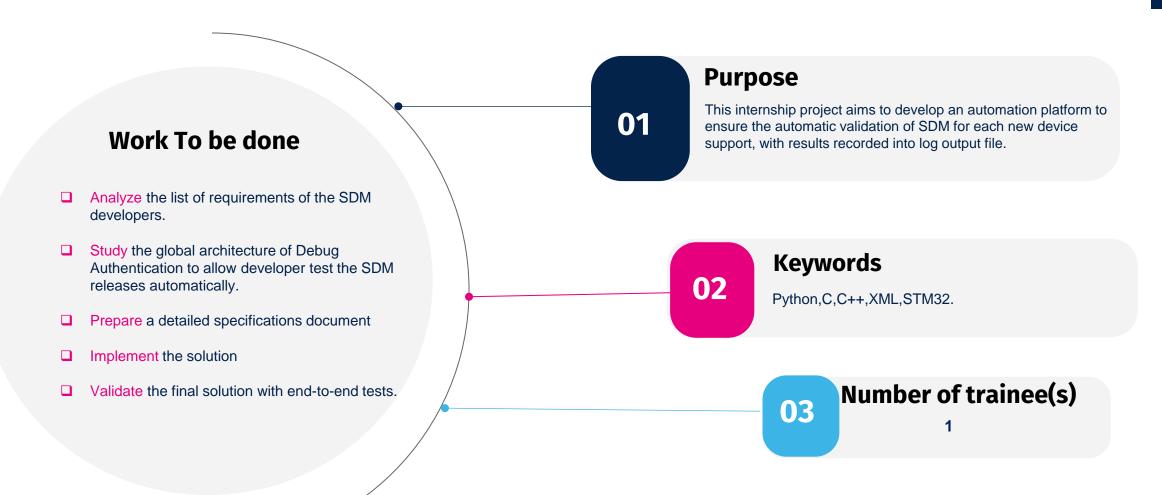


Project_ID08 : Support new revisions of Nucleo-64 boards within STM32Cube packages



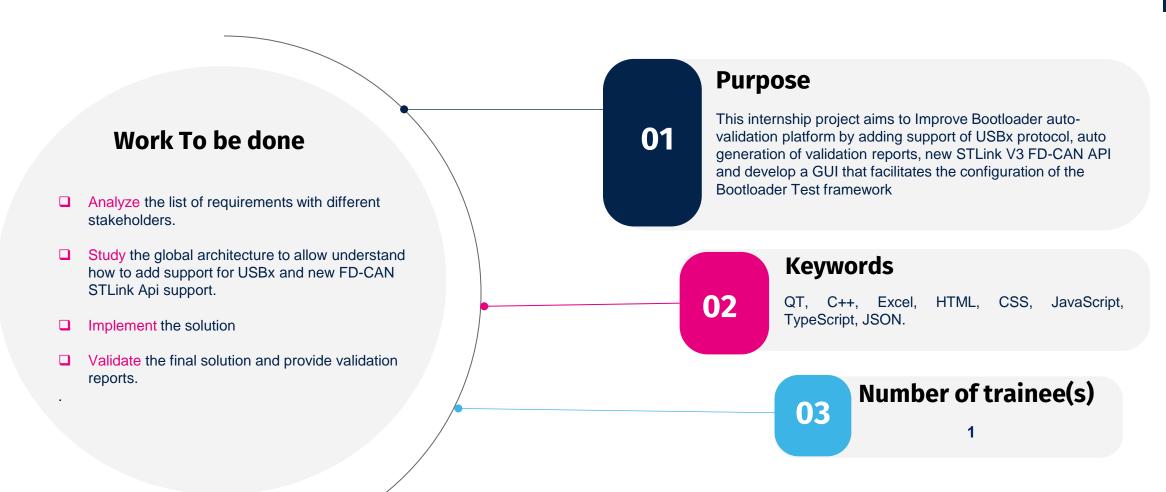


Project_ID09 : SDM Automatic validation platform development



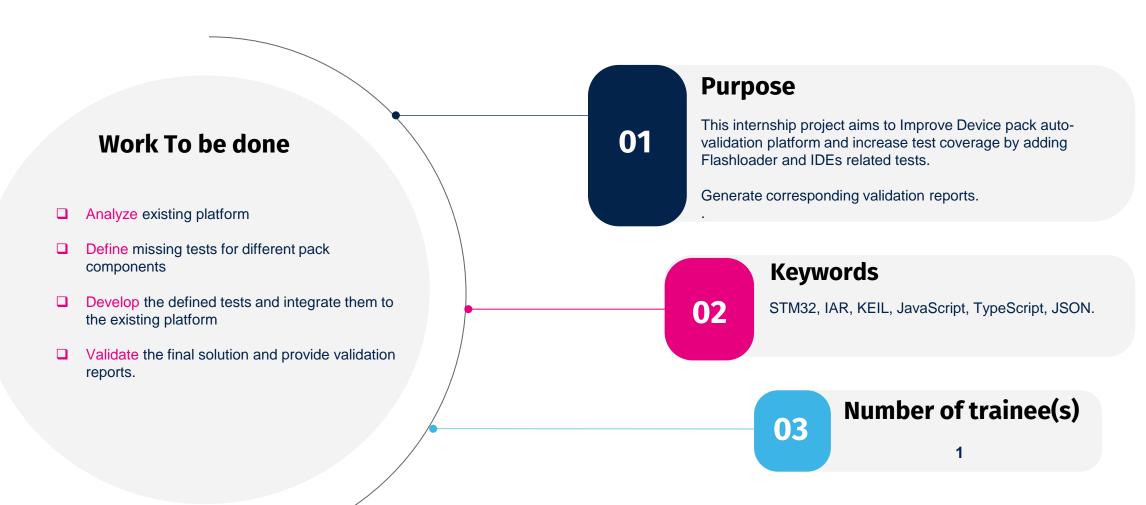


Project_ID10 : Bootloader validation platform enhancement





Project_ID11: STM32 Device pack validation platform enhancement

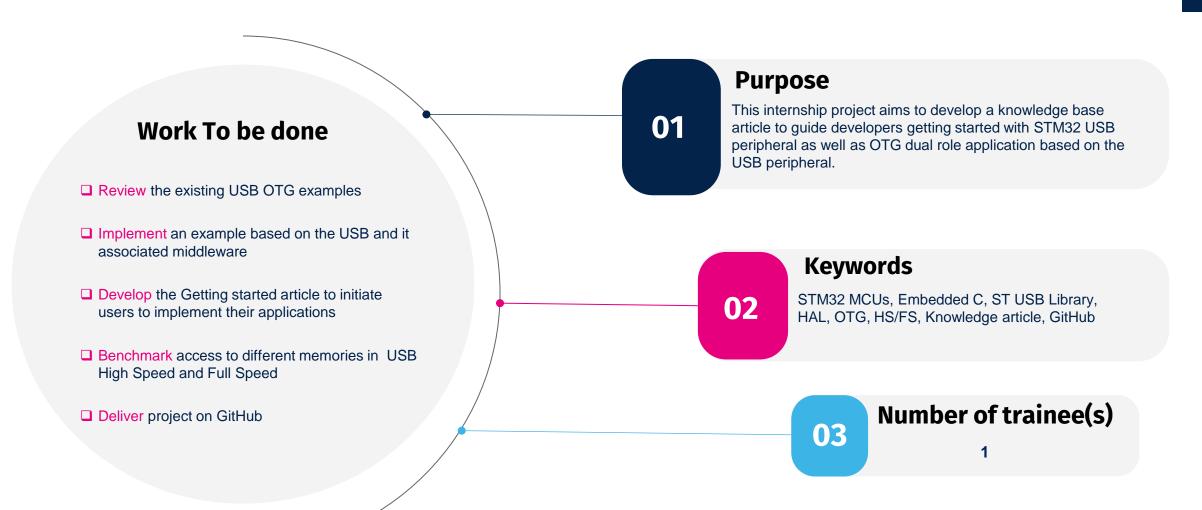






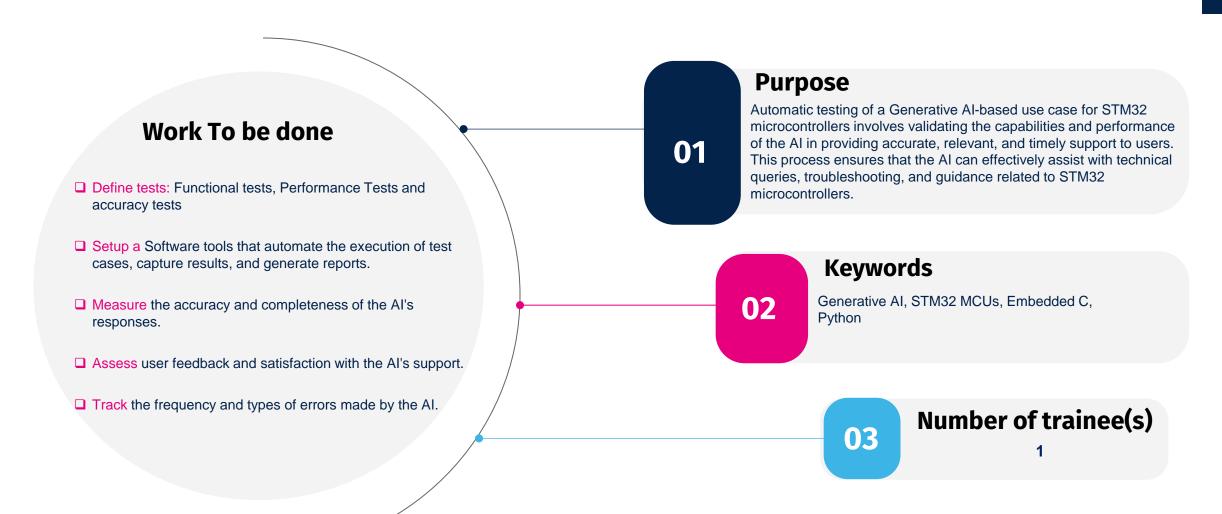


Project_ID12: Getting started with STM32 USB peripheral



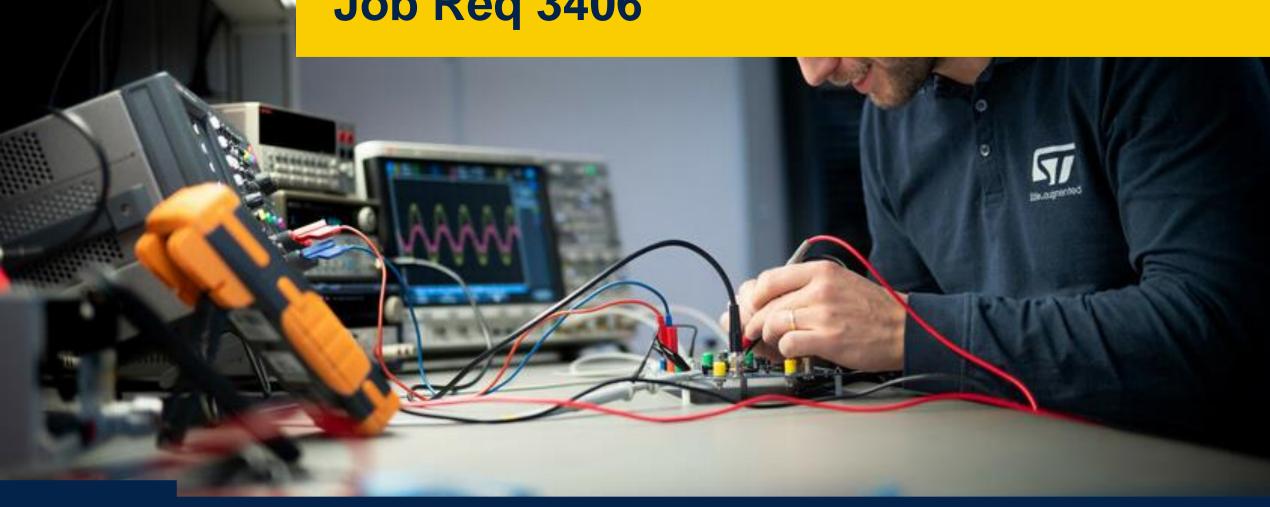


Project_ID13: Automatic Testing of GenAI - Based use case on STM32 MCUs



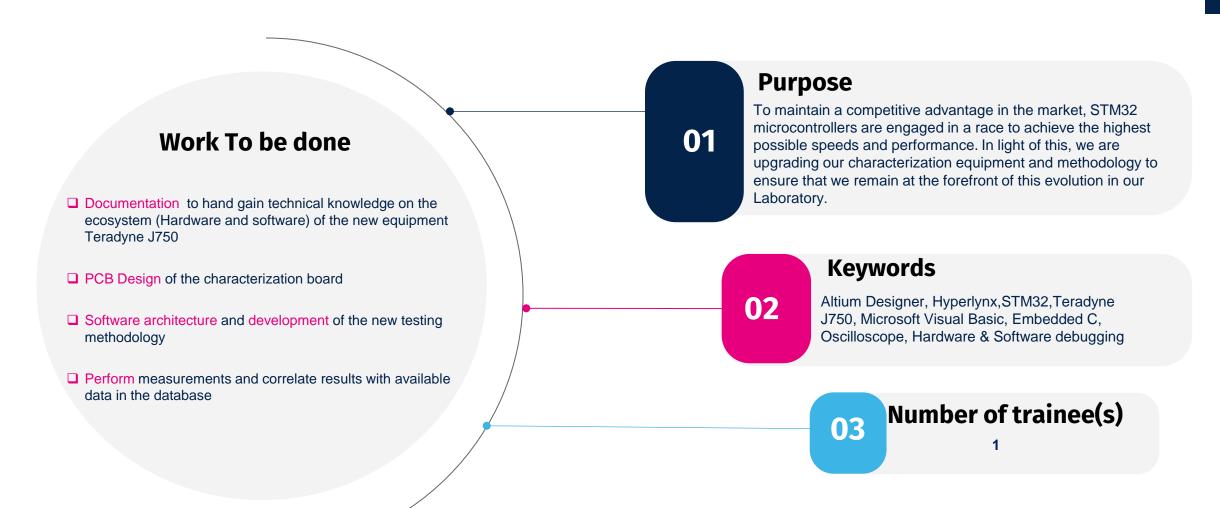


Digital Characterization Job Req 3406





Project_ID14: Digital Characterization - New Test Bench Development



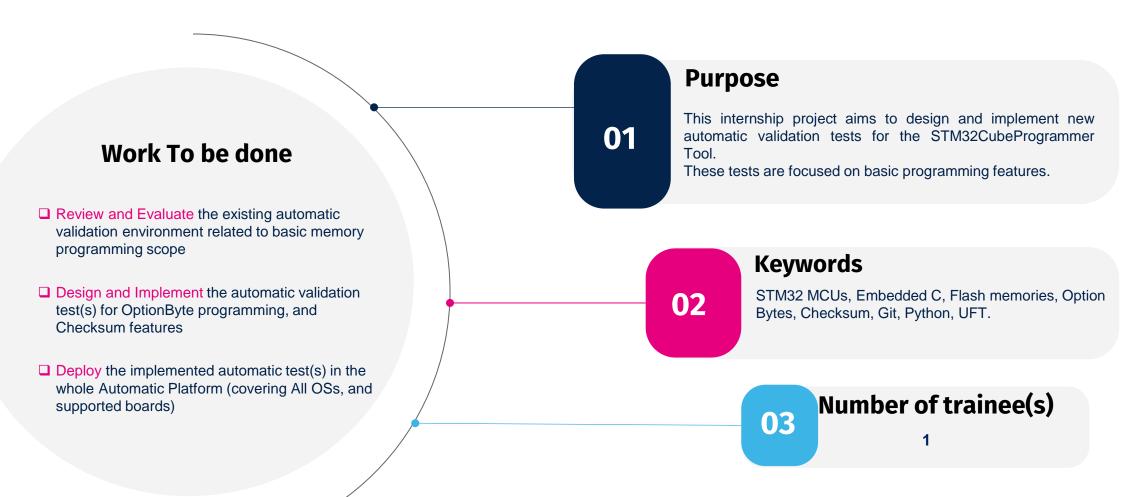


Tools Department Job Req 3395



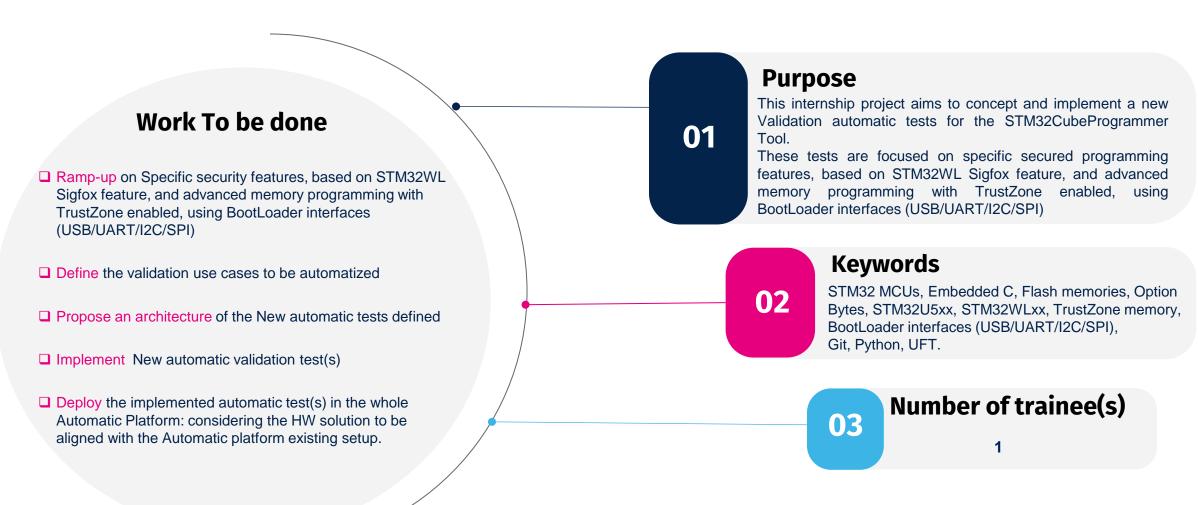


Project_ID15: Design and implementation of STM32CubeProgrammer automatic validation tests: basic memory programming features



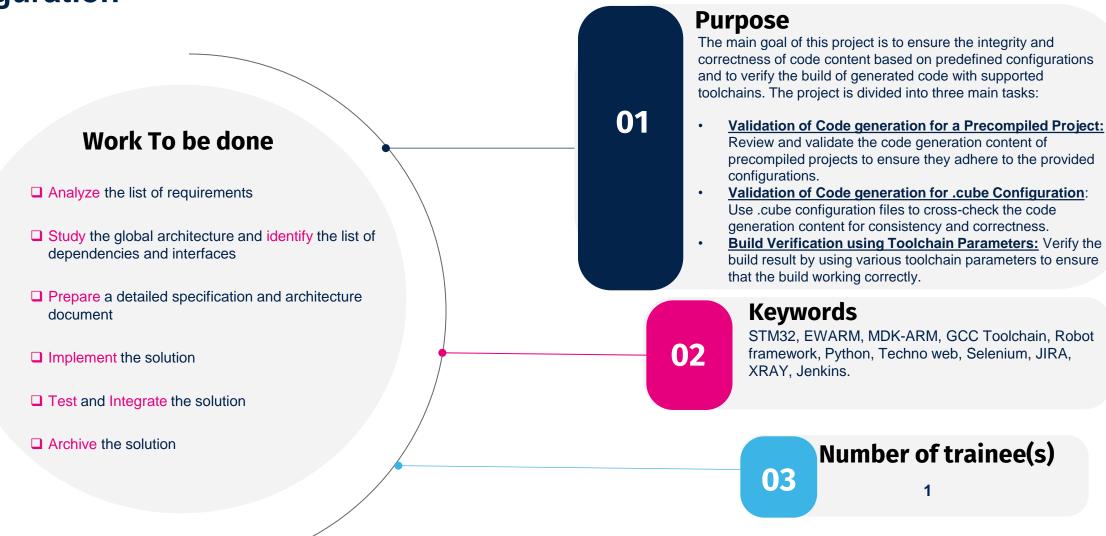


Project_ID16: Conception and implementation of STM32CubeProgrammer Validation automatic tests: Specific secured programming features



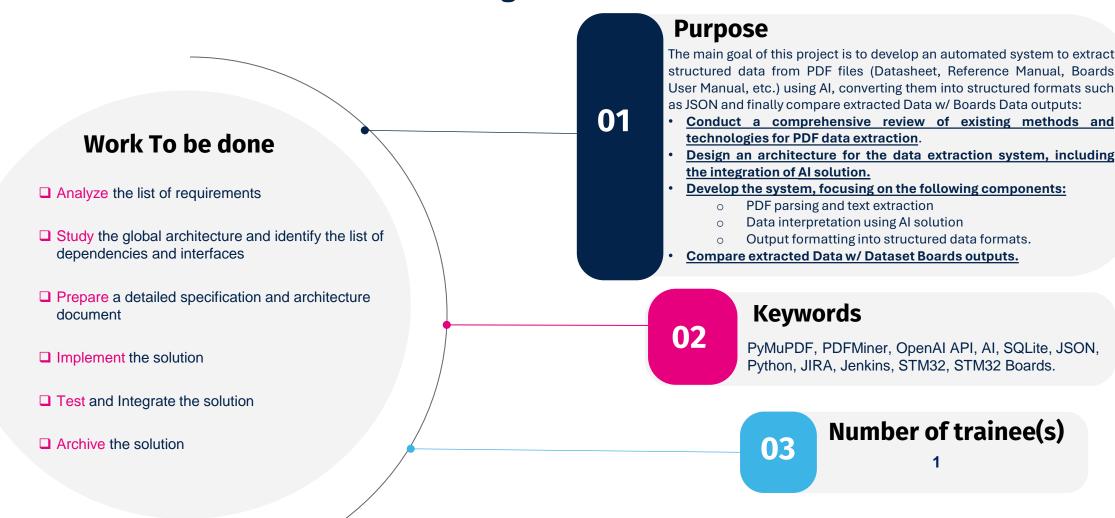


Project_ID17: Design and implement an automatic solution to validate the full user flow from code generation to project build based on provided configuration



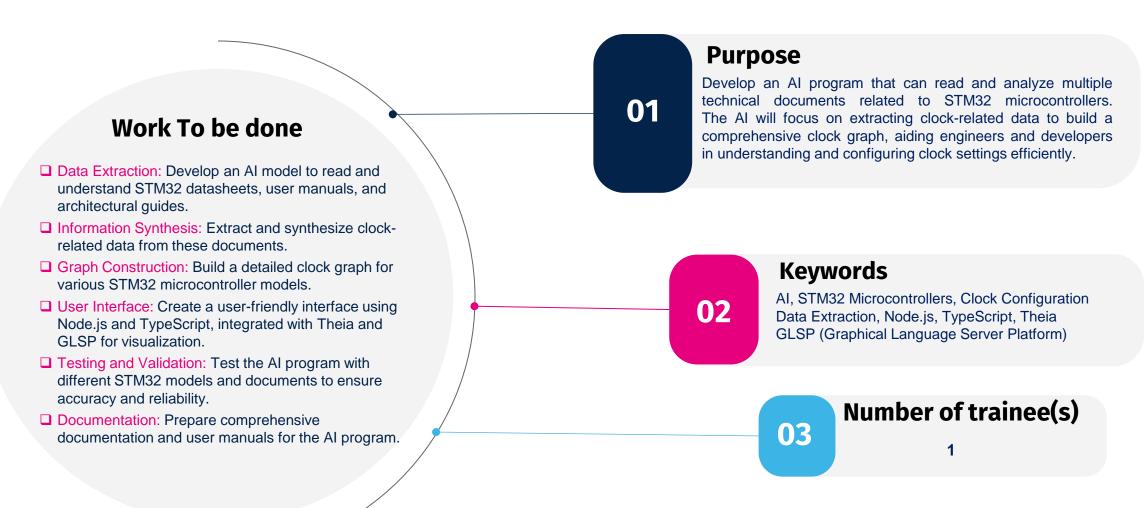


Project_ID18: Design an implement an automatic solution to manipulate and validate STM32 Boards data using Al





Project_ID19 : Al-Powered Clock Graph Generator for STM32 Microcontrollers



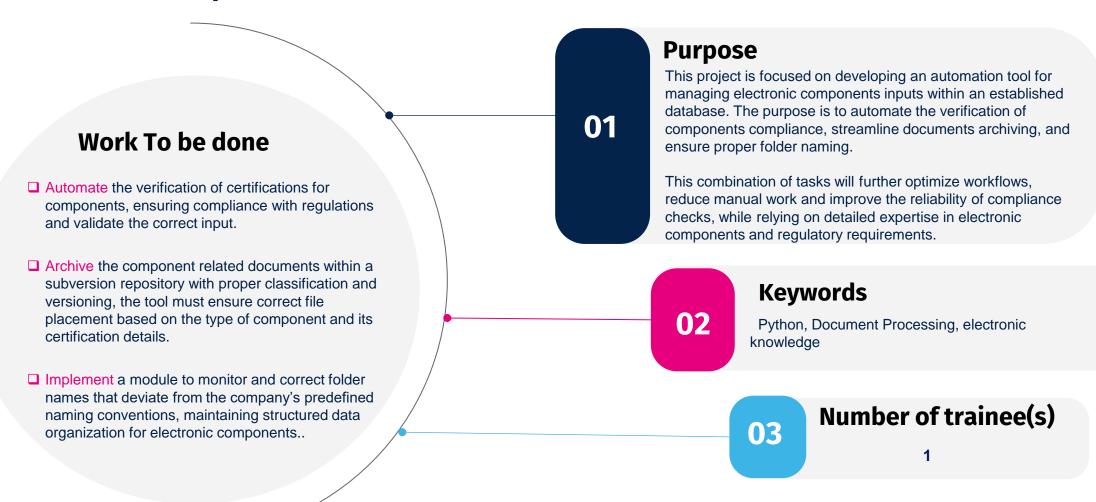


Hardware Department Job Req 3367&3366



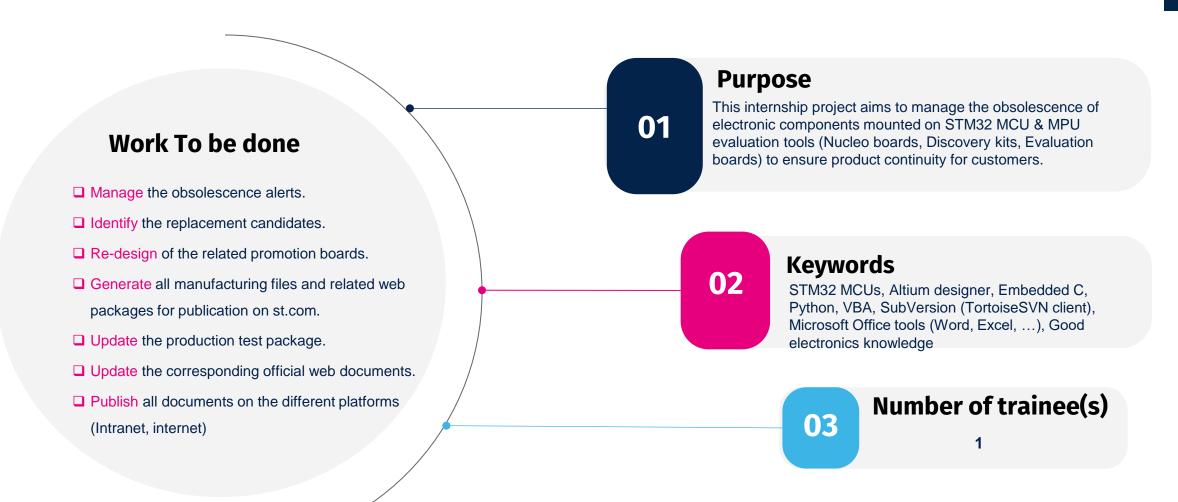


Project_ID20 : Automated management and compliance verification tool of electronic component documentation





Project_ID21 : Maintenance of a STM32 MCU & MPU Evaluation Tool



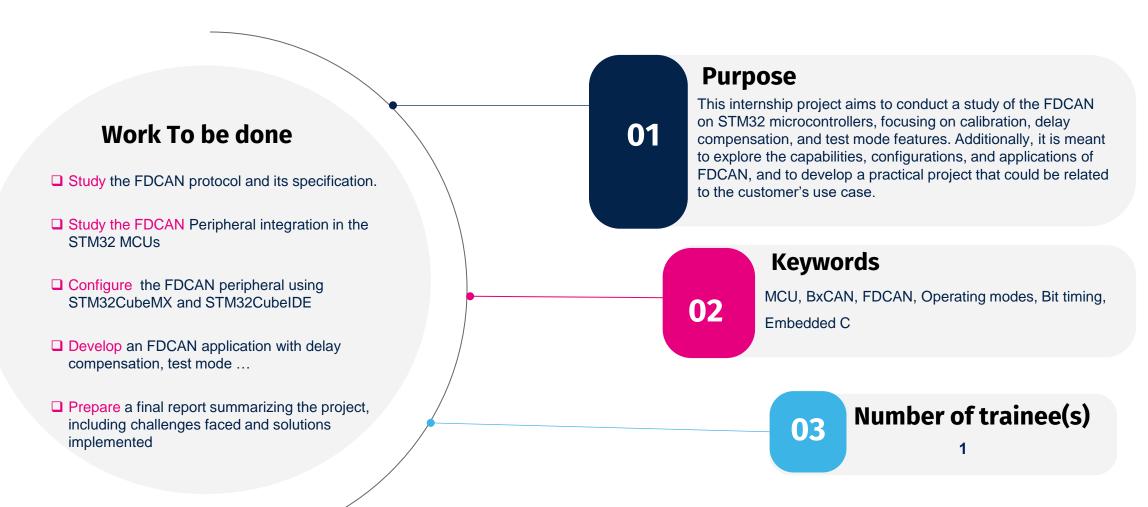


STM32 Support Solution Job Req 3527



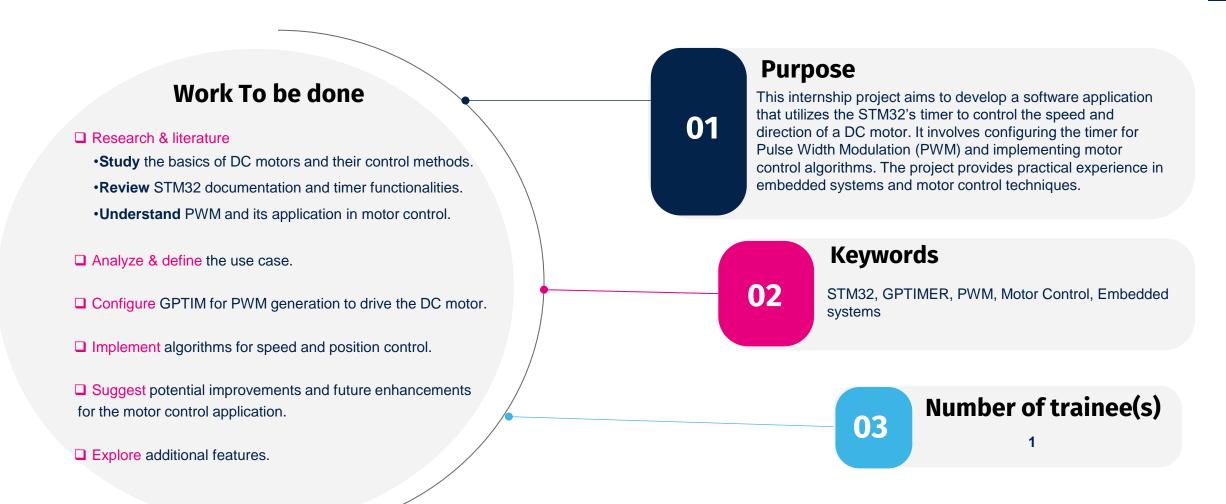


Project_ID22: Develop Application of Flexible Data-rate Controller Area Network (FDCAN) on STM32 Microcontrollers





Project_ID23: Develop an application for DC motor control using STM32 Timer



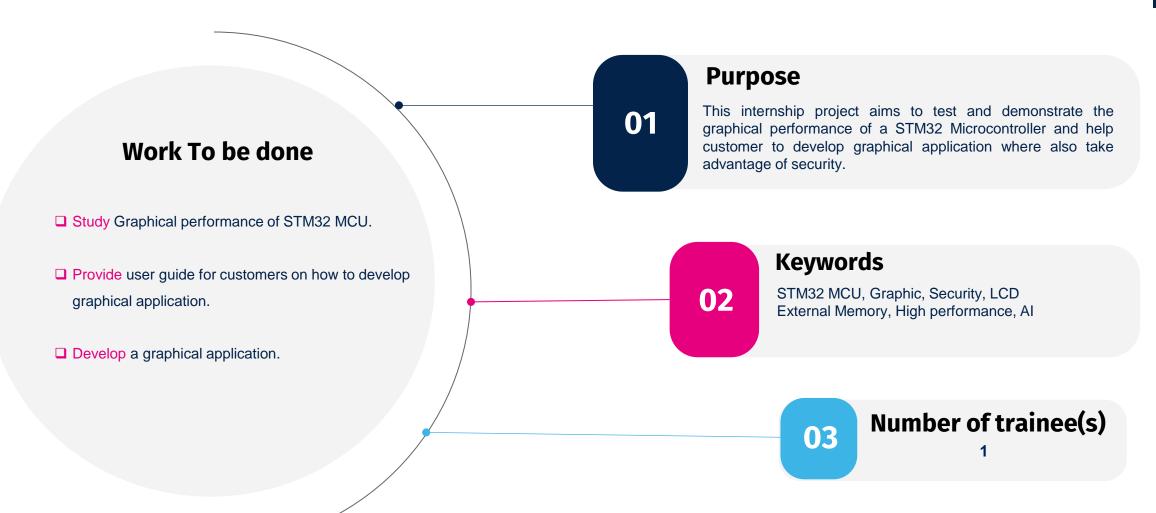


Sales & Marketing Job Req 4277





Project_ID24 :Develop User Guide for Graphical Application on High Performance STM32 MCU





Tunis R&D Center

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requisition that corresponds to the
department number.







Thank you



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