



Internship Description

Inverter Software Application Development

(SM-STC003 / 2025)



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What we offer

	SILICON MOBILITY SAS, an Intel Company
	The Automotive industry is living a revolution. Electrification, autonomous driving, diverse mobility, connectivity are trends that are drastically changing the industry's rules. Among all decisive topics revolutionizing cars in the next future, Silicon Mobility is committed to support the rapid advent of electric and hybrid cars.
Company	Silicon Mobility, an Intel company, is a technology leader for cleaner, safer and smarter mobility. The company designs, develops and sells flexible, real-time, safe and open semiconductor solutions named FPCU (Field Programmable Control Unit) for the automotive industry used to increase energy efficiency and reduce pollutant emissions while keeping passengers safe. The Company is looking for a motivated candidate to join our R&D team based in Sophia-Antipolis on the Riviera.
	If you are interested, please send us directly your application and CV on the Intel Website careers or send them to $\underline{\text{recruitment@silicon-mobility.com}}$.
Offer ref.	SM-STC003-2025
Subject – Offer title	Inverter Software Application Development
Duration	5-6 months— between February/March/April and September 2024
Work hours	35 hours per week
Work place	Silicon Mobility office
Education	Last year of Master (BAC+5 or equivalent)
	As part of the R&D System and Software team, the intern will participate in the development of the software for the electric motor control application. The intern will contribute to the development, integration and configuration of the software modules from specification down to verification using dedicated software testing tools, covering the AGILE development flow with the project team. The Silicon Mobility solution is based on the OLEA® FPCU System-on-Chip dedicated to automotive applications. The purpose of this internship is to analyse, define, develop, configure, and test the software solution.
Content/ Mission	 During the internship period, several tasks will be addressed: Requirements analysis

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	During this task, the intern will have to develop, integrate, and verify the different components of the embedded software.
Profile required	We are looking for a candidate with good knowledge of embedded C programming, and high-level programming language. Good skills in hardware design for embedded systems would be appreciated. The candidate shall be autonomous, rigorous with a strong team spirit. English speaking is required.
Expected Skills/ Knowledge	 General knowledge of microcontroller development Development of embedded software on ARM processor Critical real-time embedded software on ARM processor Requirements analysis and specifications writing Notions of planning and project management Quality management skills
Remuneration	1400€/month + Lunch tickets + Public transport