English project – A day in your dream job

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I work in a company named “Shark Robotics” based in France with Cyrille Kabbara as the Founder, Chairman and CEO. It comports over 70 members in the company and had a sale figure of +4.596.838€ in 2021. Founded in 2016, the company develops innovative robots for various applications, including defense, security, and civil protection. They are designed to assist in tasks such as reconnaissance, surveillance, hazardous material handling, and other missions that require remote operation. They are equipped with advanced technology to operate in challenging environments and adjustable as required. The mains domains of Shark Robotics are fire safety, security and EOD, nuclear, and space. For most of these, a robot exists to help humanity.

My job in the company is software development engineer. Among other things, I design for each robot in the process: the remote control, the perception by AI, and decision-making based on its environment. I sometimes participate with the design development team to share my feedback and how I see the electronic elements I'm programming being placed. We're a team of 5 developers, so we must divide up the tasks to be more productive, and everyone must do their job independently of the others. This is my first job, and before that I studied at Epitech Technology in Strasbourg for 5 years. That's where I learned to code, even though I've always been interested in robotics and programming: my biggest dream is to build an AI capable of being put into a humanoid robot for use as a personal robotic assistant, I work on it when my day is over.

Speaking of the day, my daily routine when I arrive at work around 8:45 AM, is to have a coffee with colleagues. At 9 AM, the morning meeting begins with the CEO, the heads of the various divisions and their teams, including myself. We generally review the week's and month's objectives for each division. Then each member reports on his or her progress, plans for the day and any potential obstacles. We then review the project board or task list to prioritize the day's activities. Today, we're concentrating on perfecting the navigation algorithm for the new autonomous drone. It ends around 10 AM and it's time to work on the navigation algorithm. Before all, if it’s not done yet, I plan my day with different tasks that I know i have to do and estimate the time that it will take me to do it. Depending on the project's needs, I select the appropriate programming language, libraries, and frameworks suitable for developing the navigation algorithm. This might involve using Python, C++, or specialized robotics frameworks, for me it will be the framework TensorFlow. And I achieve my tasks, in collaboration with others AI engineers to integrate machine learning models for enhanced obstacle detection, the fastest and cleanest possible until noon. It’s lunch time, all teams take a break and meet at the canteen, we discuss projects, or completely other things about our life, it’s good sometimes to get your head out of the code. The break stops at 1:30 PM and it's time for me to test and debug issues that I noticed and think before or while lunch. It’s special today because we have an occasional collaborative meeting at 3 PM, we participate in a cross-functional meeting with hardware engineers and robotics specialists. Discusses integration strategies for the updated software with new sensor hardware. It lasts till 6:30 PM, and after that I continue a bit to code but generally around 5 PM I begin to write all my tasks of the day, that I've accomplished or not, my recall, things to do better tomorrow and other similar things. My day ends at 8 PM and I go back home or sometimes we hang out with colleagues to have a great time.

I really like my job, I like code and my colleagues and superiors are gentle and funny, I work hard to be promoted to responsible software development engineer, but I want to continue coding and not just lead people/teams. The hardest part of the job was moving from Strasbourg to La

Rochelle, so I saw less of my family but fortunately my wife moved with me due to their partner “Conjoint Booster” so my wife could find a new job very easily. My enthusiasm for this field grows with every passing day, whether it's through enhancing navigation algorithms or envisioning a future where AI serves as a personal assistant. I hold a positive outlook on what lies ahead, as I not only anticipate further career growth within Shark Robotics but also the ongoing advancement of robotics technology. As our dedicated team at Shark Robotics strives to develop increasingly sophisticated and impactful robots, my commitment to excellence in software development remains unwavering. This drive is rooted in a deep belief in the transformative capabilities of technology. Although the journey has only just begun, I am excited to play a role in shaping the future of robotics technology.