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MY MOTIVATION TO BE YOUR APPLICATION DEVELOPMENT ENGINEER

I find the work done by the Application Development team exciting, as it specializes in engineering embedded control applications (using the cutting-edge model-based design MATLAB tools) for various sports cars as well as providing electronic control hardware and software tools for customized projects. I think a friendly team such as yours is key to the growth of any venture because it allows for the combination of diverse knowledge and skill sets in the product's development. I would love to be the Engineer that uses his skills to support the teams' activities so that I can contribute, through McLaren Applied, to making the planet more sustainable for the future of humanity.

MY CAPABILITY WITH EMBEDDED SOFTWARE AND CONTROL ENGINEERING

As an application development engineer in this team and with my background in MSc Mechatronics and BSc Electrical/Electronics, I will be able to complete the duties listed below. If given the opportunity, I am also willing to engage in travelling, and other related tasks that might be demanded of me.

- **Develop and maintain embedded software in MATLAB/Simulink.**
- **Develop and run HIL, SIL and simulation testing.**
- **Provide support to customers developing their own software for MA ECUs.**
- **Provide tier two customer support to aid the track support team.**
- **Disseminate knowledge of Motorsport control system and MA products.**
- **Contribute to the track support function to maintain relevant knowledge base.**
- **Guide the continuous improvement of departmental procedures and knowledge base.**

I have used my solid theoretical background in engineering – power electronics, embedded software, 3-phase converter control principles, and control systems – in the past to complete similar tasks. To be specific, I have worked on a project whose requirement was to develop an electronic controller to regulate the speed of a BLDC motor for application in their low-power electric vehicle. In this thesis project, I performed system simulations and embedded control software design/development tasks while also collaborating with the team members – the power converter hardware developer, project supervisors, and company employees. I have also worked on adaptive non-linear systems, robotics systems, optimization, and image processing algorithms.

MY PERSONAL AND SOCIAL COMPETENCIES

I would humbly describe myself as an ingenious and self-motivated problem solver who is always open to new challenges and takes full ownership of assigned tasks. As a fast learner, *I am not afraid to take a stand* on learning new technologies and industry trends – as evidenced by my self-learnings at the HIL Academy and Codecademy. I value innovation and I am committed to delivering my tasks within deadlines and seeing them to completion. I am also a team player who is open and has good communication skills for cross-functional work, and I am capable of independent work when needed. I have demonstrated these competencies in my education, trainings, and work experience.

I am always motivated to work in a cross-disciplinary and diverse environment that is innovative, and seeks pioneers and visionaries, as it allows me to be a part of something challenging and bigger than myself.

I humbly hope you are interested in learning more about my competencies and motivation for applying for this role in your team, and I genuinely look forward to meeting with you.

Best regards
Boboye Okeya