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NASA Internships Selection Committee,

I'm applying for the Digital Engineering Developer Internship at the Johnson Space Center, and I am especially interested in your focus on model-based systems engineering. I believe my experience developing systems applications, including solar elevation to color temperature simulations for a blue-light filter application, would allow me to positively contribute to your efforts in implementing pilot digital engineering systems. I'm very excited about the opportunity to contribute to the normalization and formalization of digital engineering systems at the JSC using MBSE and SysML.

I believe my experience working with other developers on open-source projects on GitHub, using git for version control, and SSH for encrypted connectivity, has prepared me for collaborative work, explaining engineering decisions, and demonstrating the utility of existing systems and components. My experience in writing documentation for my blue-light filter application using mdBook has also prepared me for writing detailed functional descriptions and usage instructions, with a broad user-base in mind. Beyond my technical skills, I can bring a focused, detail-oriented work ethic and a genuine enthusiasm for the kind of rigorous, systems-level thinking required for digital engineering.

I also believe my experience scripting with Python and Bash to automate and customize my Linux environments, as well as using Lua for metaprogramming with my IDE, could prove beneficial for this position. Any time I find myself regularly repeating an action, I consider it an opportunity to simplify my workflow by automating it away whenever safe and possible.

I look forward to adding SysML to my toolbox, and will spend time learning the language and its usage in advance before summer. I am particularly interested in learning how to integrate SysML with modern Python for visualizing scientific data, and increasing my understanding of new problem-spaces. If you find me to be a good fit for this position, I will arrive with at least some basic understanding of SysML v1 and v2, and an enthusiastic dedication for learning new things which I believe will help me contribute to NASA's efforts at the JSC.

Sincerely,

Jose Elizondo