To whom it may concern,

Romaric is interested in providing an internship to Benjamin Awerkamp and Vladimir Antigua for their CS 6800 capstone class in the fall of 2021. Below you will find a brief introduction to the mission of Romaric along with a few potential ideas that Benjamin and Vladimir may be involved with, if they choose to participate in this internship.

Romaric provides world-class software products and integration services for factory automation in the semiconductor, retail, automated parking, solar, medical device and any other industry striving to take advantage of the vast throughput improvements made possible by automation. Romaric specializes in providing the highest possible factory throughput in terms of material transport and management, while adjusting for the constant changing environment.

As part of a new initiative this year Romaric is creating a new product line. This will be a shift in product packaging from one that was project based (targeting individual customers and making custom software for that customer) to one that is product based (targeting the automation crowd). This requires a significant effort to repackage the RACE (Romaric Automation Control Engine) core libraries into a product that will help enable software teams to quickly and effectively get a new project off the ground and pointed in the right direction for success.

As part of hosting an internship program this fall, we have a variety of assignments that the interns could participate in. Below is a list and brief descriptions of some of the tasks that would be a good starting place. One or more of these may be assigned during the internship. Bill Madsen would be the primary mentor assigned to work with the interns, though it would be likely that they would work with other members of the development team throughout the internship.

Web client: This would entail building a web client using RESTful services hosted by a Wildfly application server. The intent is to reproduce the core functionality that we currently have in one of our products that uses a Java swing client. A full software requirements specification will be provided at the start of this project.

Automated Test Framework: They would be assigned to work with a senior engineer to assist in building a new testing application that would be capable of interacting with several of Romaric's products and allow the loading of application state to enhance our current integration testing capabilities.

Pair Programing: In addition to the new product line, we currently have several active projects and depending on the stage of the project there is the possibility of the interns working directly with our engineers. It is difficult to say exactly what they would be working on in this case, but it could be anything from low level TCP message handling to J2EE EJB interactions. It would require active participation in the SDLC on their part.

In general they would be working with some of the following tools and technology: IntelliJ, Mac computers, command line development, bash scripting, Java SE, J2EE, MySQL databases, Wildfly application server, JIRA, git, RESTful services, to name a few.

If there are any questions or additional details required, please feel free to reach out to me directly.

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