

Siemens

April 12, 2023

Concerning: Grid Software Internship (Software Developer)

To whom it may concern,

I am currently a PhD student in the University of Arizona's Applied Mathematics program, involved in two projects: implementing and analyzing numerical methods to simulate natural gas flows, beginning to perform uncertainty quantification to model inclusion of stochastic renewables in the power network, and applying physics-informed machine learning to create data-driven, reduced-order models for isotropic turbulence. Broadly, I am interested in applying efficient algorithms (traditional or data-driven) to advance the so-called "energy transition" sustainably and reliably.

Before entering graduate school, I worked for 3 years writing algorithms in an embedded environment using C/C++. This experience was invaluable, and taught me that I thrive at the interface between modeling of complicated dynamical systems and efficient implementations of algorithms to simulate them.

I am passionate about fast, scalable modeling of dynamical systems, and am excited by the possibilities posed by Siemens Xcelerator for Grids portfolio - I hope to get discuss it further with you.

I appreciate your consideration,

Criston Hyett

Attached: curriculum vitae