

Home Contact Projects

Max M. McKie

Simulation Engineer at Verizon

I am currently employed as a Simulation Engineer at Verizon and am also studying for my M.S. in Artificial Intelligence at Johns Hopkins University!

I received my B.S. in Physics from the University of Arizona in 2019 and my M.A. in Physics from the University of Rochester in 2021. My past research includes nanophotonics at UA and plasma physics at UR. After completing my master's, I moved to Colorado where I began my career as a Simulation Engineer creating industrial agent-based discrete event simulations at 360 Rail Services. I have since moved to Fort Worth, Texas and bought a house here with my wonderful wife.

Physics is my first and foremost passion, although since I entered the workforce I have also had the opportunity to learn about and get hands on experience with the wonderful world of artificial intelligence. My ultimate dream is to position myself at the intersection of AI and physics research so that I may help advance the frontier of human scientific knowledge using the smartest and most powerful tools ever created.



Contact

The screenshot shows a dark-themed website with a header bar at the top containing three items: "Home", "Contact" (which is highlighted in green), and "Projects". Below the header, the main content area has a dark gray background. At the top of this area, the text "Contact Information" is displayed in a bold, black font. Below this heading, there are two entries: an email link starting with "✉ mmckie2@jh.edu" and a LinkedIn link starting with "in LinkedIn". The entire content area is enclosed in a rounded rectangle with a thin blue border.

Contact Information

✉ mmckie2@jh.edu

in [LinkedIn](#)

Projects

The screenshot shows a dark-themed website with a navigation bar at the top containing 'Home', 'Contact', and 'Projects' (which is highlighted in green). Below the navigation bar, the word 'Projects' is displayed in a large, bold, yellow font. A bulleted list follows, with the first item being a link to 'EN.605.256 Module 1 Assignment: Personal Website'. The description for this project explains the use of Flask in Python, HTML, and CSS, detailing how templates inherit from a base template and how styling is managed via a style.css file.

- [EN.605.256 Module 1 Assignment: Personal Website](#)
This website was designed using Flask in Python along with HTML and CSS files. Each webpage inherits from the same base.html template in the 'templates/' folder, and are themselves stored in 'templates/pages/'. All stylization is controlled via the style.css file located in the 'static/' folder and page routing is implemented using Flask blueprints.

Publications

- [Microcoulomb laser plasma accelerator on OMEGA EP](#)
J. L. Shaw, M. A. Romo-Gonzalez, N. Lemos, P. M. King, G. Bruhaug, K. G. Miller, C. Dorrer, B. Kruschwitz, L. Wexer, G. J. Williams, M. V. Ambat, **M. M. McKie**, M. D. Sinclair, W. B. Mori, C. Joshi, Hui Chen, J. P. Palastro, F. Albert & D. H. Froula
[Scientific Reports](#) 11, Article number: 7498 (2021)
- [2D semiconductor nonlinear plasmonic modulators](#)
M. Klein, B. H. Badada, R. Binder, A. Alfrey, **M. McKie**, M. R. Koehler, D. G. Mandrus, T. Taniguchi, K. Watanabe, B. J. LeRoy & J. R. Schaibley
[Nature Communications](#) 10, Article number: 3264 (2019)