

JACK MAES

TEACHER, NATIONAL CURRICULUM AND INSTRUCTION LEAD

(703) 965-0961 theprojectpeoplebuild@gmail.com Alexandria, VA 22314

CAREER OBJECTIVE

I am a passionate and dedicated Science and Math educator who believes in the importance of recognizing what students and teachers require to learn and develop as individuals. I continue to demonstrate new and proven techniques to keep students and teachers connected through learning and growth, and will always put strong and healthy relationships at the center of my practices as an educator. I always strive to innovate and spread new projects and lessons to my students and department- members in an effort to ensure learning is relevant, inventive, and accessible.

EXPERIENCE

- **NATIONAL CURRICULUM AND INSTRUCTION LEAD** Fusion Academy Alexandria
Alexandria, VA *February 2022 - Present*
 - Evaluated existing curricula for relevance and accuracy according to current standards.
 - Conducted regular reviews of national curricula to ensure STEM alignment with best practices and standards in education.
 - Created resources for and presented on AI in school settings across the country
 - Analyzed data from assessments to inform instruction and assessment design.
- **STEM TEACHER/MENTOR** Fusion Academy Alexandria
Alexandria, VA *November 2019 - Present*
 - Planned, prepared and taught lesson plans, giving students individual support and concerted attention. Communicated with students and parents regarding academic progress, assignments and behavior. Encouraged student interest in Science, Technology, Engineering and Mathematics (STEM) and participation in middle and high school science projects, self-designed labs, and facilitative teaching strategies.
- **STEM DEPARTMENT HEAD** Fusion Academy, Alexandria
Alexandria, VA *January 2022 - Present*
 - Evaluate performance continuously to identify areas in need of improvement and implement strategies to keep team unified and serving our students. Collaborate with department members to coordinate multifaceted solutions to emerging problems. Cultivate collaborative, growth-oriented culture to keep team motivated and enthusiastic about new projects and student needs. Manage efficient workflows by creating effective schedules and project plans and delegating work based on personnel strengths and knowledge.

■ **INTERDISCIPLINARY LEAD** Fusion Academy Alexandria
Alexandria, VA

August 2021 - January 2022

- Coached team members in techniques necessary to promote cross-curricular activities. Trained new team members by relaying information on company procedures and project/lesson requirements. Worked with multiple departments and subject areas to provide optimal coverage interdisciplinary goals.

EDUCATION

■ **MASTER OF SCIENCE IN ENGINEERING AND SYSTEMS THINKING CERTIFICATION**

Massachusetts Institute of Technology, Cambridge, MA

January 2022

■ **MASTER OF ARTS IN EDUCATION**

The College of William And Mary, Williamsburg, VA

January 2018

■ **BACHELOR OF ARTS IN ENGLISH, MATERIALS SCIENCE**

The College of William And Mary, Williamsburg, VA, US

January 2017

SKILLS

- STEM Certified with Michigan Virtual
- Certified in coding for C, C#, C++, Arduino, HTML, and Python
- Certified in Addiction Treatment through Yale University

LANGUAGES

- **French**
Fluent

PUBLICATIONS

- Journal of Genetic Engineering and Biotechnology Research: "Problem Solving for Sustainable Engineering"
- Political Culture and the Making of Modern Nation-States (citation, University of Queensland): "From Religion to Tales of Old"