

Jordan Marks

Learning Engineer

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Former materials engineer leveraging background in aerospace engineering, technical communication, and teaching to improve engineering education and communication

Skills

Computer Skills

MS Office, SharePoint, Project
Java, HTML
MATLAB
Weka

Design Skills

Adobe InDesign, Illustrator
Contextual Inquiry
Prototyping
Affinity Diagramming

Learning Science Skills

Curricular Design
Learning Curve Analysis
Adobe Captivate
Cognitive Task Analysis

Materials Laboratory Skills

Optical microscopy
DSC, TGA, DMA, TMA
SEM, EDX

Interests

Rock climbing, Skiing
Hiking, Running
Literacy tutoring
Cooking

Education

Carnegie Mellon University

School of Computer Science, Human-Computer Interaction Institute
Master of Science in Educational Technology and Applied Learning Science
GPA: 4.0 / 4.0

Pittsburgh, PA
Aug 2017

Massachusetts Institute of Technology

Bachelor of Science in Materials Science and Engineering
GPA: 4.8 / 5.0

Cambridge, MA
June 2014

Work Experience

Ball Aerospace

MATERIALS AND PROCESS ENGINEER
MATERIALS INTERN

Boulder, CO
Aug 2014 - Aug 2016
June - Aug 2013

- Constructed internal SharePoint web-page to provide technical training, a materials database, and enhanced lab efficiency
- Developed methodology for improved materials processing capabilities
- Conducted thermal analysis and failure analysis of adhesives and ceramics for use in military and space applications
- Documented materials and process changes in engineering reports, process plans, and specifications

National Youth Science Foundation

UNIT LEADER, PHYSICAL SCIENCES AND PROGRAMMING ASSISTANT

Bartow, WV
June 2014 - 2015

- Led daily discussions with 30 high-school graduates to encourage personal and community development in the month-long residential science camp
- Planned curriculum and taught introductory courses on materials science, ceramics, and failure analysis

MIT Materials Science and Engineering Department

TEACHING ASSISTANT

Cambridge, MA
Jan - June 2014

- Prepared and delivered bi-weekly recitations, office hours, and review sessions to 50 sophomore students for "Microstructural Evolution of Materials" course
- Taught introductory lab courses on phase change materials and modeling defects to 50 sophomore students

Academic Projects

Carnegie Mellon University / Renaissance Learning

METALS CAPSTONE PROJECT; TEAM COORDINATOR

Jan - Aug 2017

- Led team of four educational technology researchers to study goal-setting and progress monitoring processes used by teachers to improve goal-setting tool in Renaissance reading and math software
- Conducted interviews with 20 educators; practiced user centered research to synthesize and analyze teacher needs

Tools for Online Learning

- Designed e-learning course to teach chemistry of glassware design
- Designed a cognitive tutor to teach phase diagrams interpretation skills

Sep - Dec 2015

Jan - May 2015

Applied Machine Learning

- Trained a classifier to predict scientific literacy based on a scientific survey