TECHSOURCE ASCENDAS SYSTEMS

www.techsource-asia.com

Live Seminar

Online Learning and Virtual Labs with MATLAB and Simulink

Starting soon….

MathWorks® Authorized Reseller | MATLAB® & SIMULINK®

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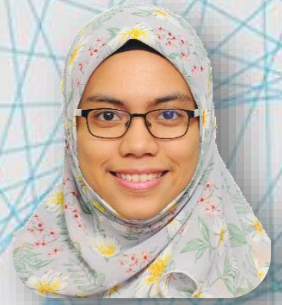
Online Learning and Virtual Labs with MATLAB and Simulink



Speaker

Intan Nuralisa Mat Dali
Customer Success Engineer
TechSource Systems

Technical Assistant

Rasyiqah ‘Annani Mohd Rosidi
Application Engineer
TechSource Systems

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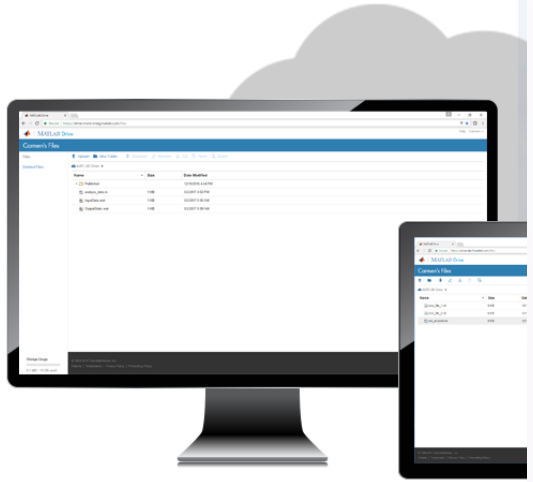
Online course example



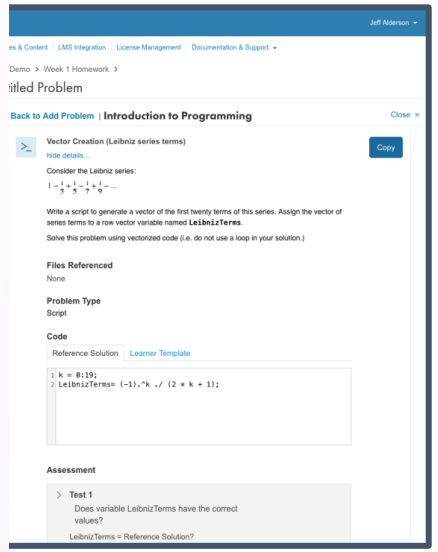
MATLAB Online

Learner Testimonials

"Wonderful course on differential equations. The teachers provide a nice computational tool to depict the dynamics of solving the equations, which is very useful for students to grasp the key ideas and concepts." - Jiting (completed this course, spending 10 hours a week on it and found the course difficulty to be medium)

"Interesting course. Lectures, homeworks and review exercises of any part are really well setup. One of the best MOOC on topic of differential equations." - Gaetano (completed this course, spending 4 hours a week on it and found the course difficulty to be medium)

"Another excellent course from MIT. The lecture videos are excellent and so are the exercises. This course also has MATLAB based exercises which is wonderful. The problem sets are excellent and so are the staff and the community teaching assistants who are always there to help any time." - Dna47a (completed this course, spending 8 hours a week on it and found the course difficulty to be medium)



ATLAB Grader

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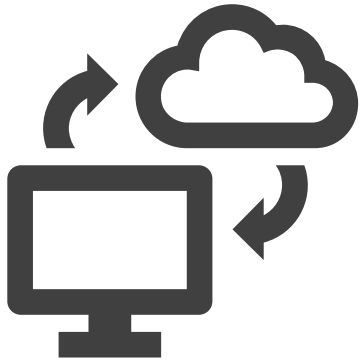
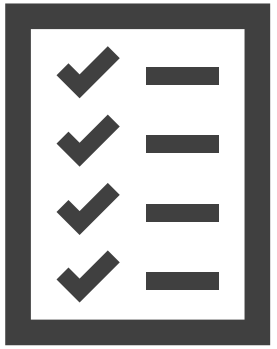
Source: https://www.edx.org/xseries/mitx-18.03x-differential-equations

Virtual course design



Access

Instruction

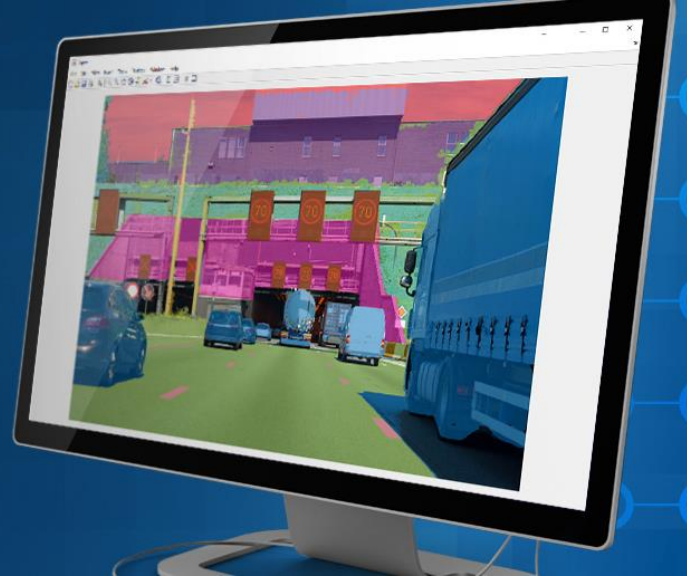


Assessment

Getting Help

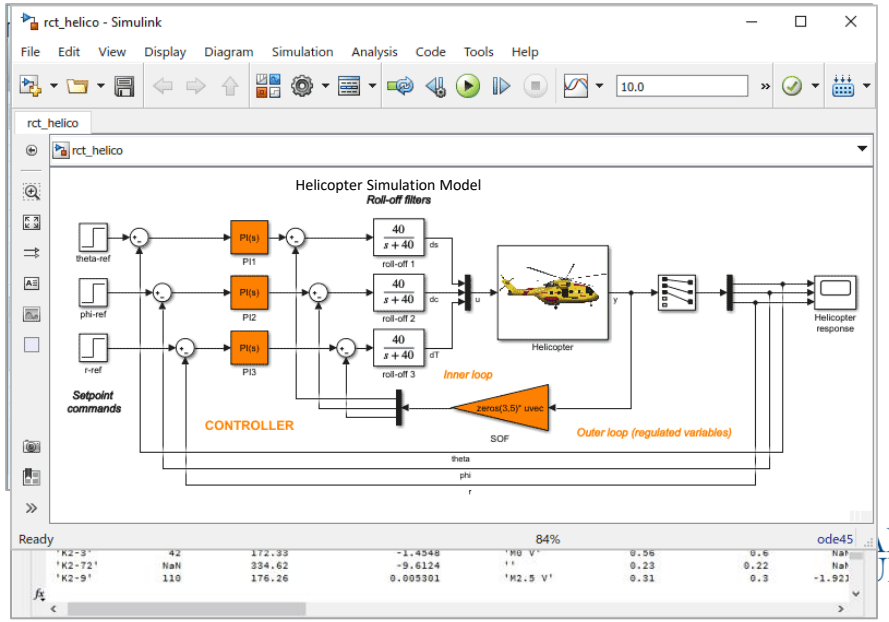
Our Products

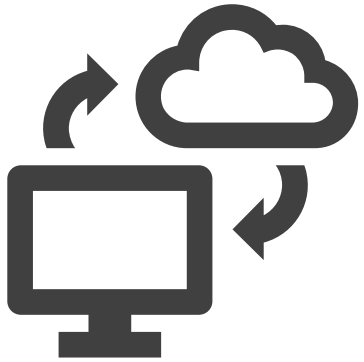
MATLAB®
&SIMULINK®



- MATLAB is a programming environment for algorithm development, data and statistical analysis, visualization, and numeric computation.
- Simulink is a graphical environment for designing, simulating, and testing systems.
- CWL offers 100 add-on products for specialized tasks.

Computer Vision System Toolbox





Access

Instruction

Assessment

Getting Help

Campus-wide access

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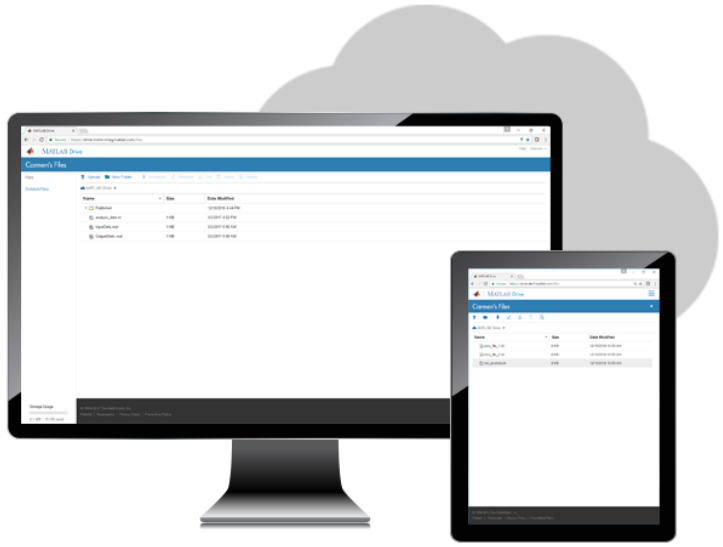
Universiti Putra Malaysia - MATLAB Access for Everyone - MATLAB & Simulink (mathworks.com)

MATLAB Online



Simulink Online

MATLAB Drive

No download or installation required

Access to the latest version

No minimum device specs other than that for your web browser

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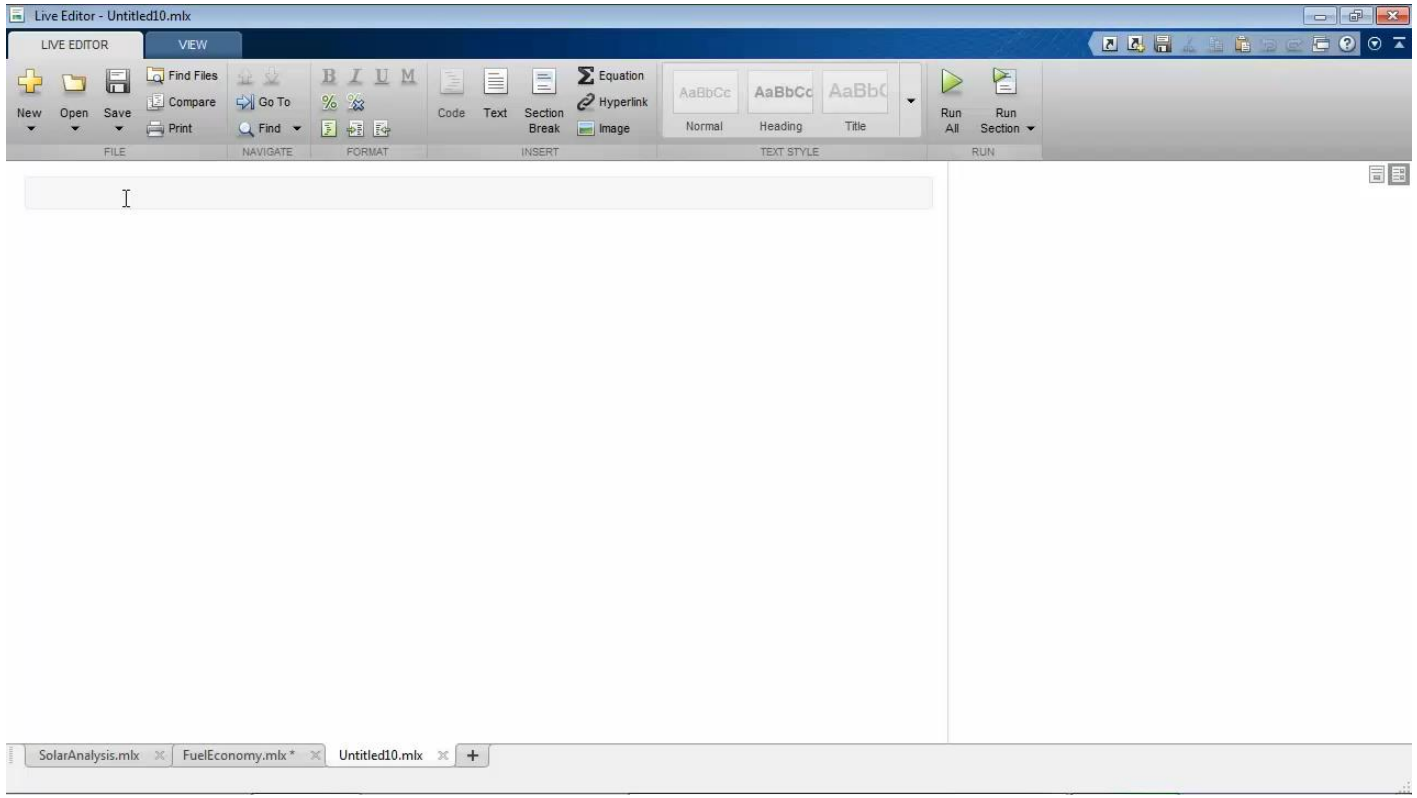
Access

Instruction

Assessment

Getting Help

Interactive programming with Live Editor



Features

- Teach with interactive documents
- Accelerate exploratory programming
- Create an interactive narrative
- Publish consistent reports

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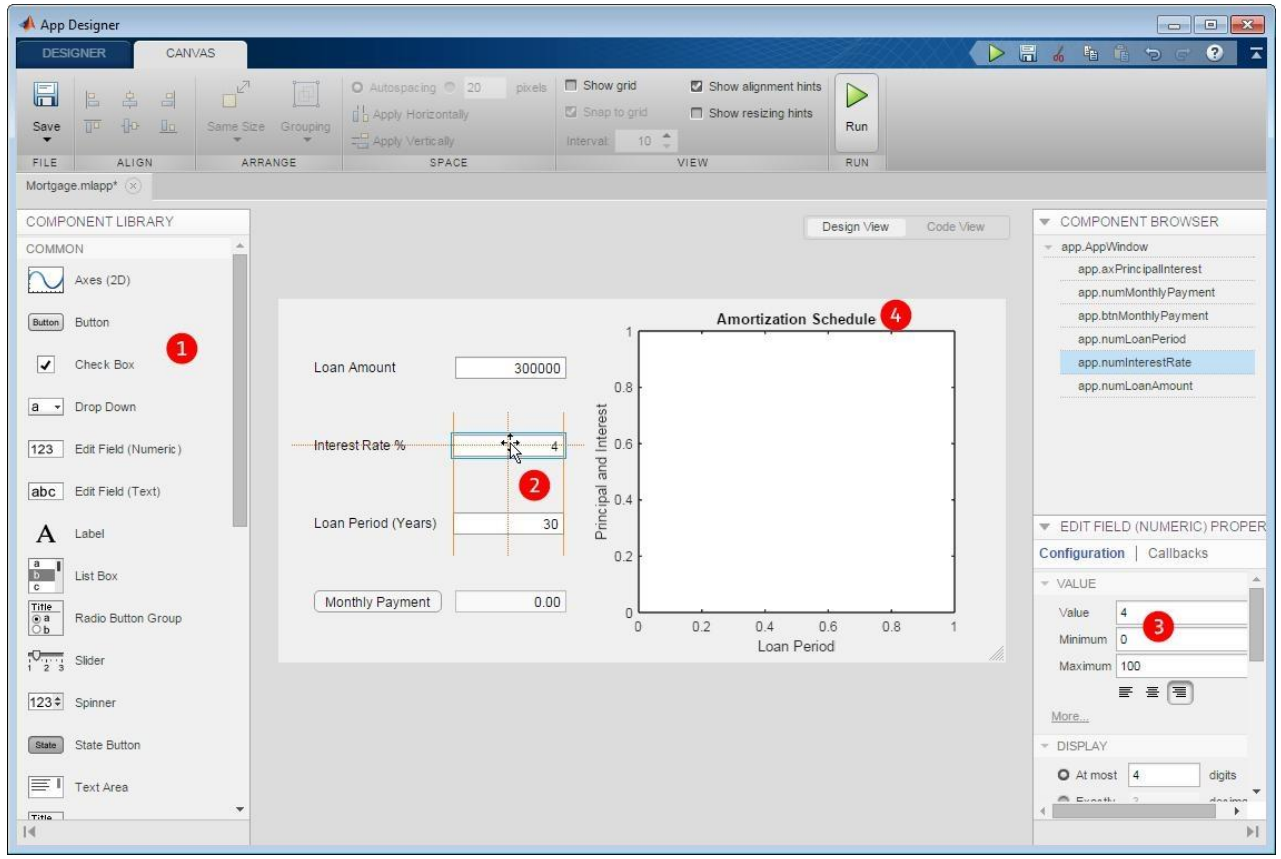
MATLAB App Designer



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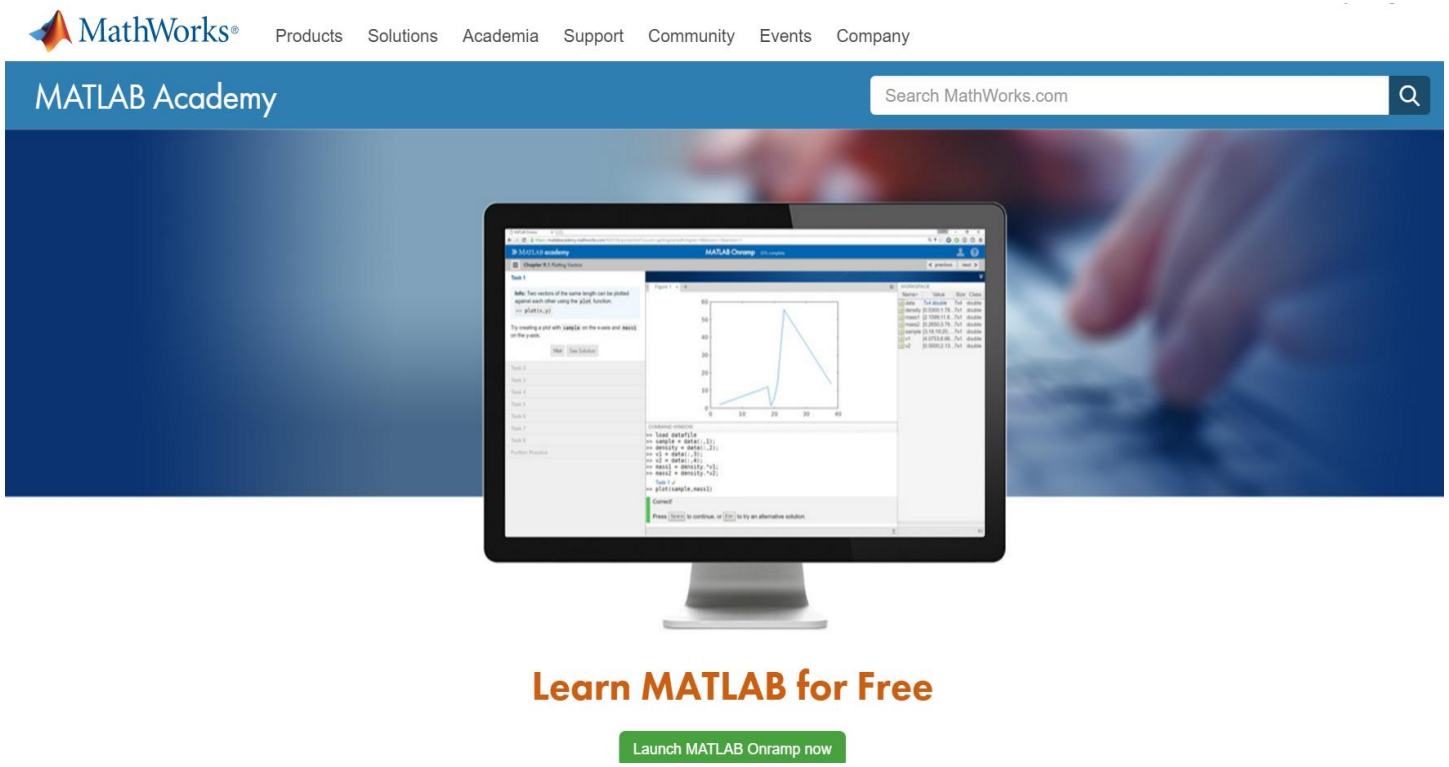
Self-paced courses



"The interactive MATLAB tutorials were perfect for engaging students and getting them up to speed quickly."

–Dr. Yu-li Wang, Carnegie Mellon University

FREE COURSES (2-3 hours)

MATLAB Onramp
Simulink Onramp
Stateflow Onramp
Image Processing Onramp
Machine Learning Onramp
Deep Learning Onramp
Control Design Onramp with Simulink

FOCUSED COURSES

FOUNDATIONAL COURSES (17-21 hours)

MATLAB Fundamentals
MATLAB Programming Techniques
MATLAB for Financial Applications
MATLAB for Data Processing and Viz
Machine Learning with MATLAB
Deep Learning with MATLAB

COMPUTATIONAL MATH COURSES (2-3 hours)

Introduction to Linear Algebra
Solving Ordinary Differential Equations
Introduction to Statistical Methods
Solving Non-Linear Equations
Introduction to Symbolic Math with MATLAB

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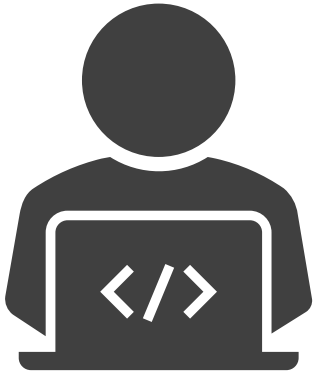
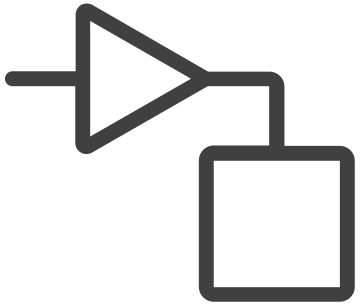
Learn by doing



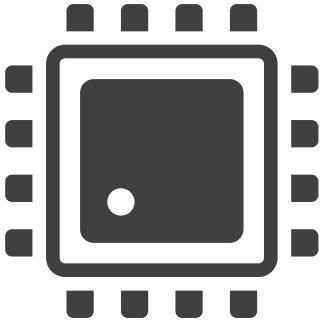
… and learn from mistakes

"Mistakes… are the portals of discovery."
–James Joyce

Laboratory Models



Virtual



Hardware at Home

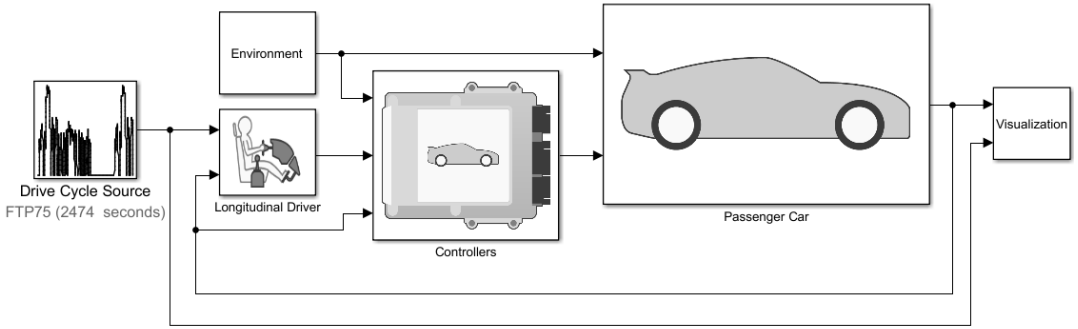
Remote

Complexity	High	Low	High
Interactivity	High	High	Low
Hands-On	Low	High	Low
Realism	Low	Low	High

SIMULINK®

Simulation and Model-Based Design

Virtual



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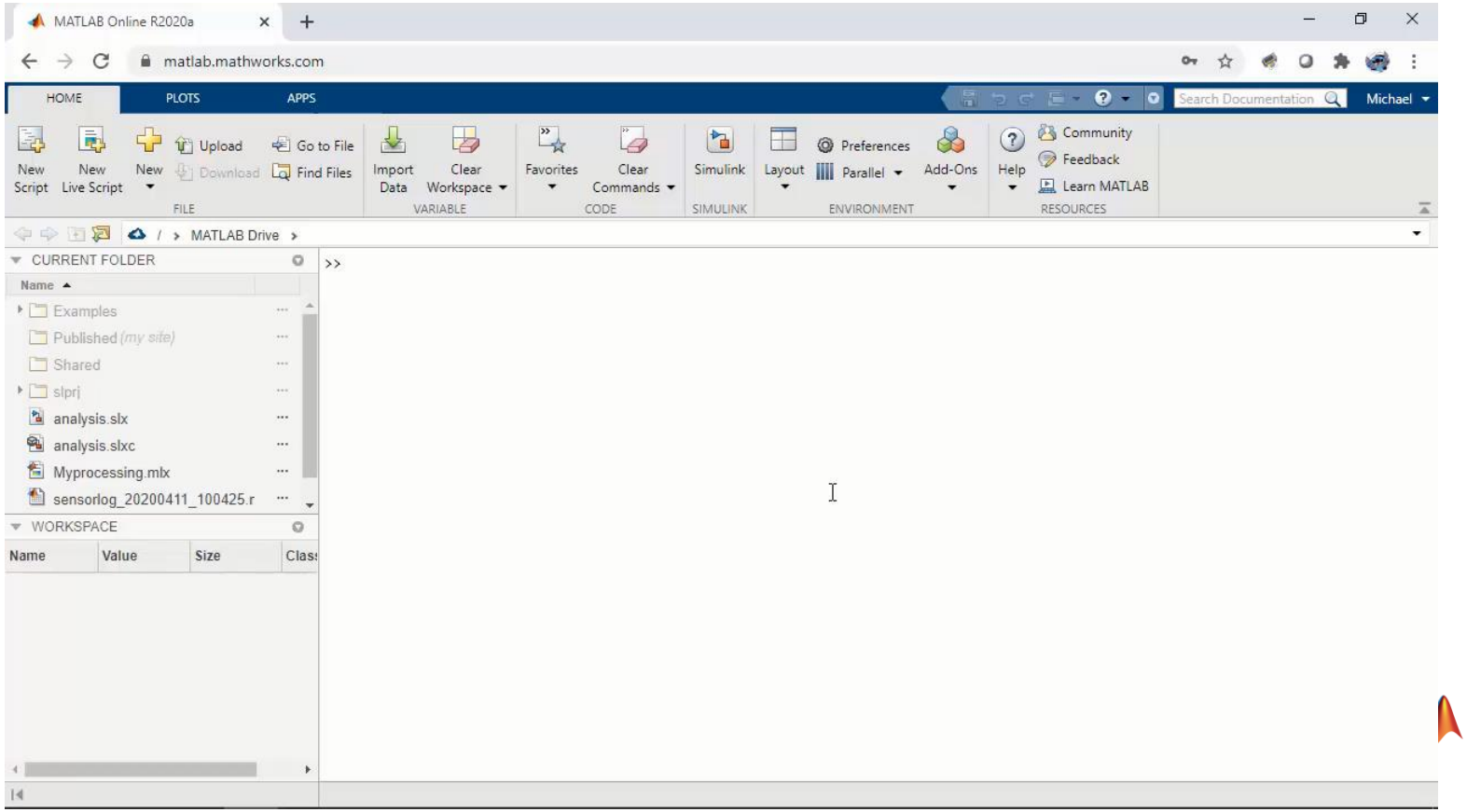
SIMULINK®

Simulation and Model-Based Design

Virtual



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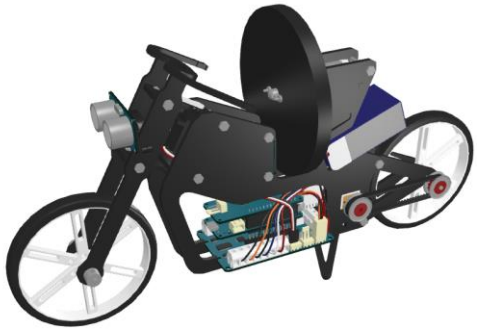
Project-based learning with low-cost hardware

Hardware



Self-balancing robots using
Arduino

Edge Detection using
Raspberry Pi

"I really enjoyed, 'Edge AI with Raspberry Pi using MATLAB' to deploy face detection and age prediction algorithms on a Raspberry Pi. I have no experience in hardware, but I completed the tutorial and now have a strong curiosity."

-Katie Amrine, PhD
Decision Scientist, Facebook

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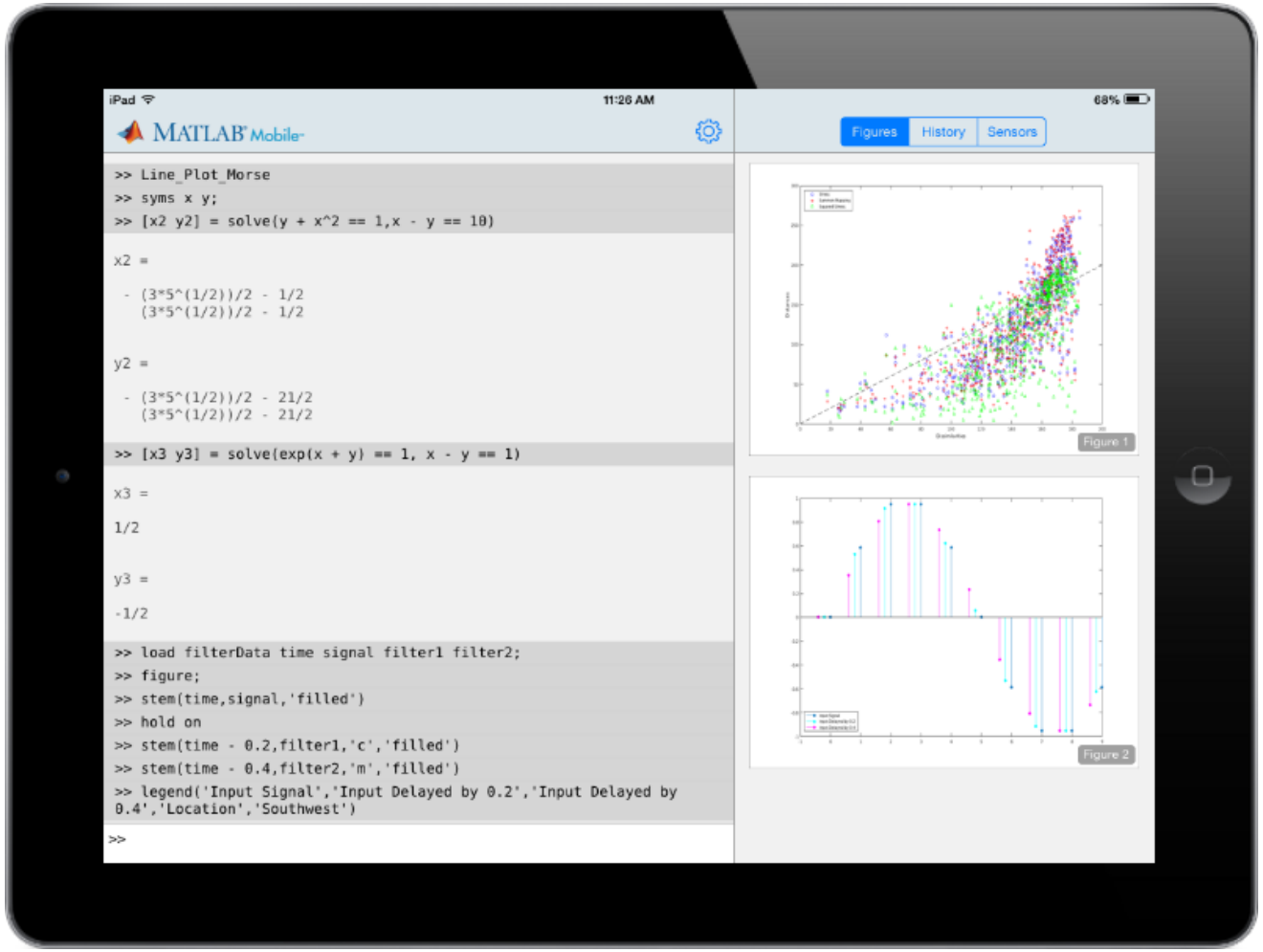
MATLAB Mobile

Hardware



MATLAB & SIMULINK

ThingSpeak

IoT analytics platform

Remote

Collect

Send sensor data privately to the cloud.

Analyze

Analyze and visualize your data with MATLAB.

Act

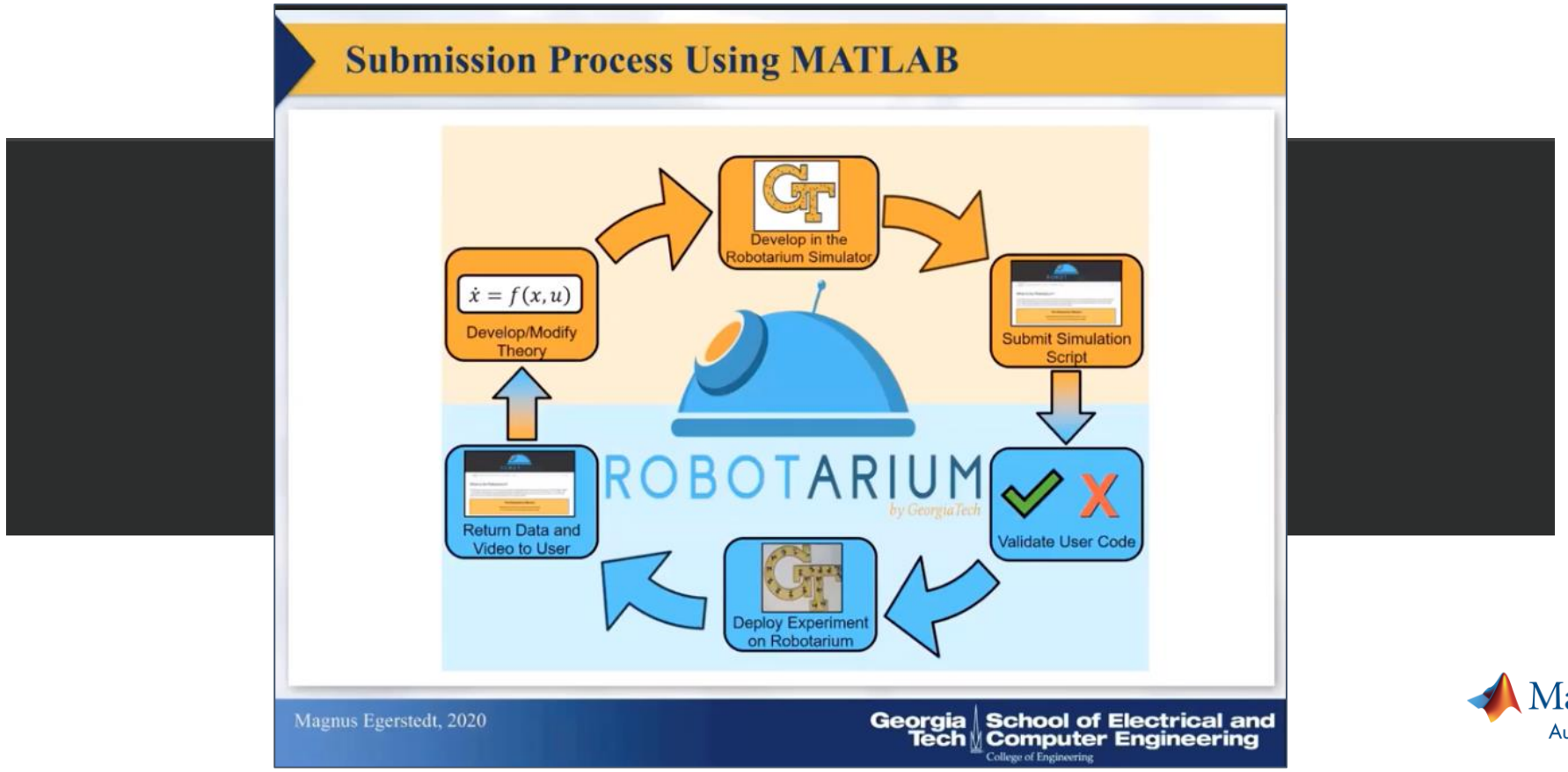
Trigger a reaction.

TLAB® IMULINK®

Remote Labs

Robotarium at Georgia Tech

Remote



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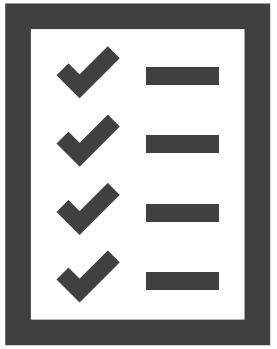
https://www.youtube.com/watch?v=rwN-FNWuJZY&t=104s

http://www.robotics.gatech.edu/robotarium

Access

Instruction



Assessment

Getting Help

Autograde MATLAB Assignments

Traditional Grading

Submit homework

Wait 1-2 weeks

Get feedback

Read it??

Work on next homework

Autograding

Submit homework

Instant feedback

Coaching

Improve and learn

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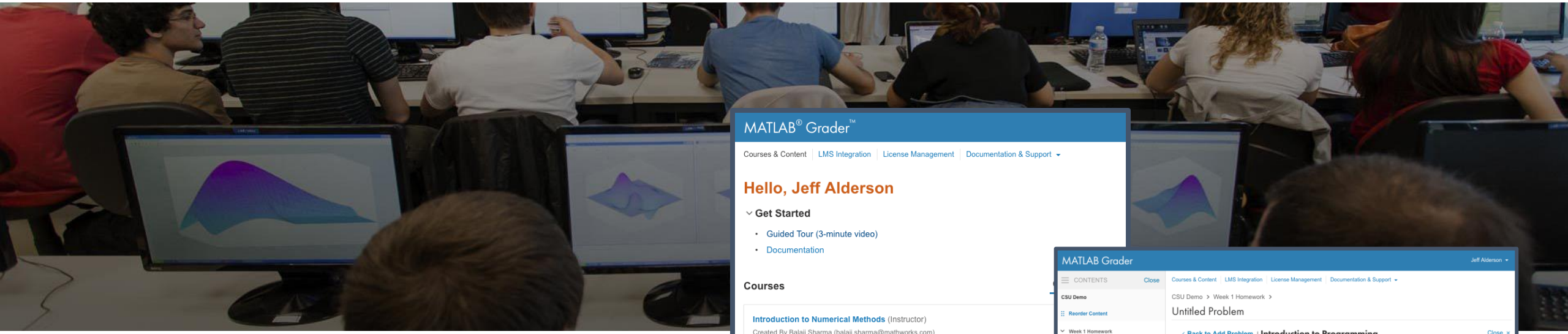
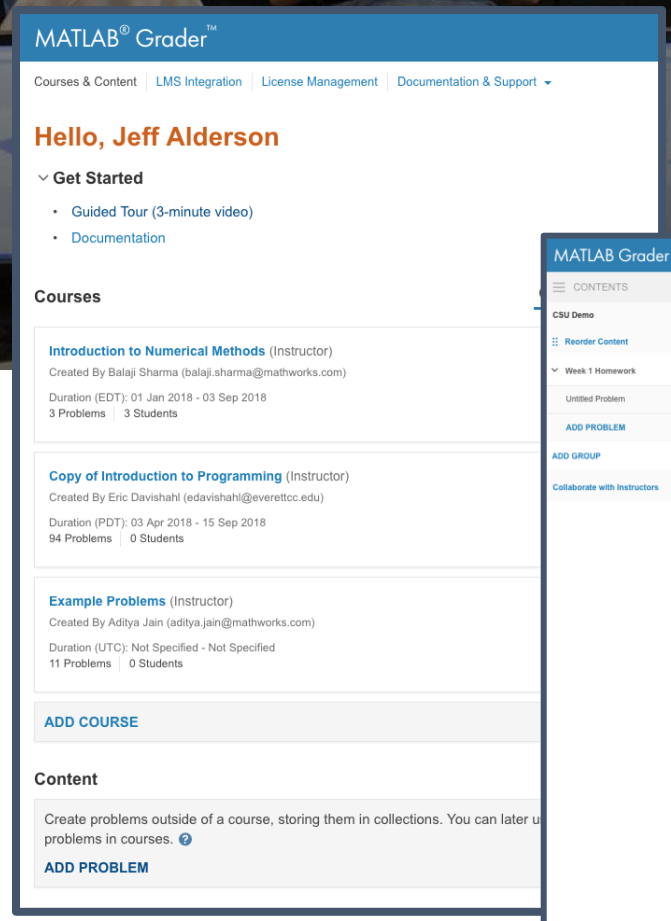
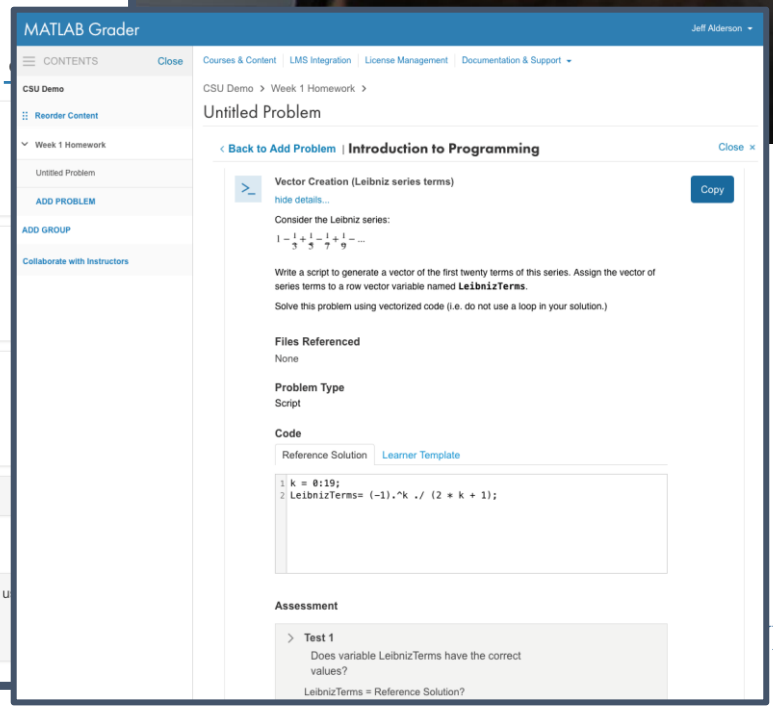




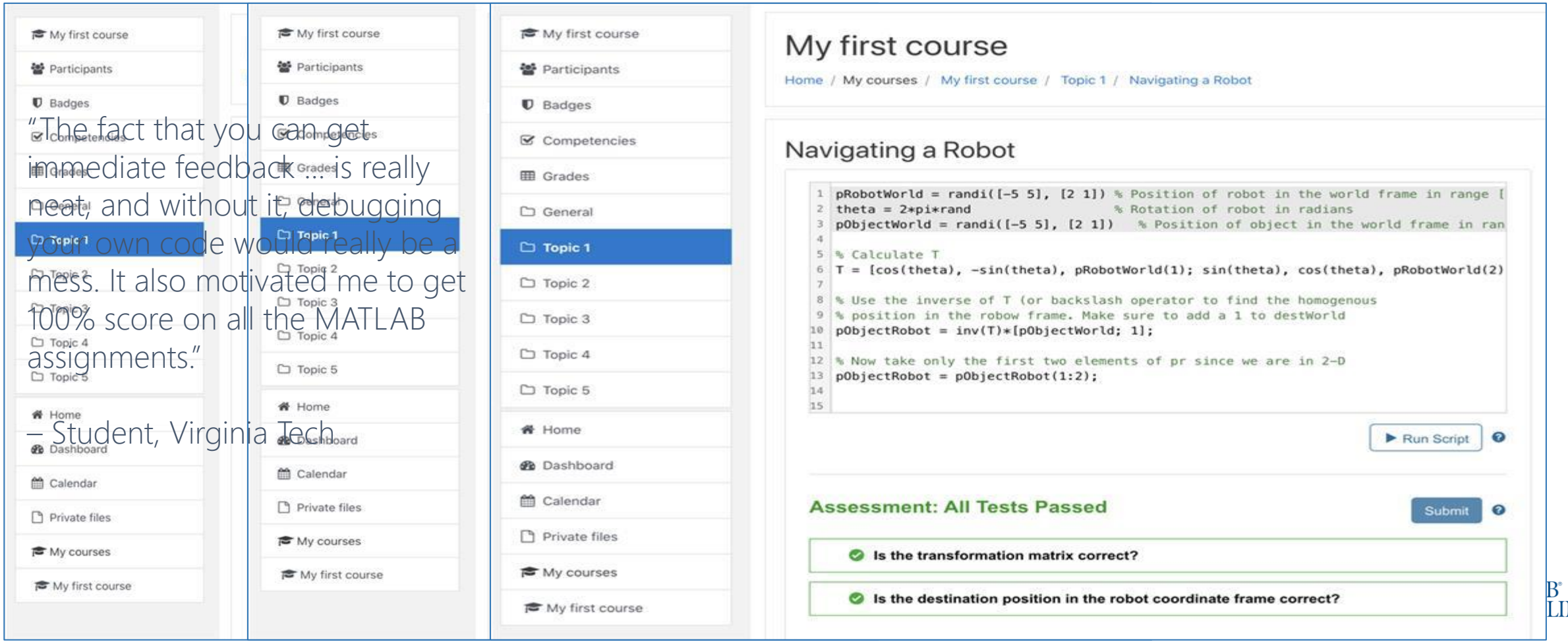


Create interactive course assignments

Automatically grade student work and provide feedback

Run your assignments in any learning environment

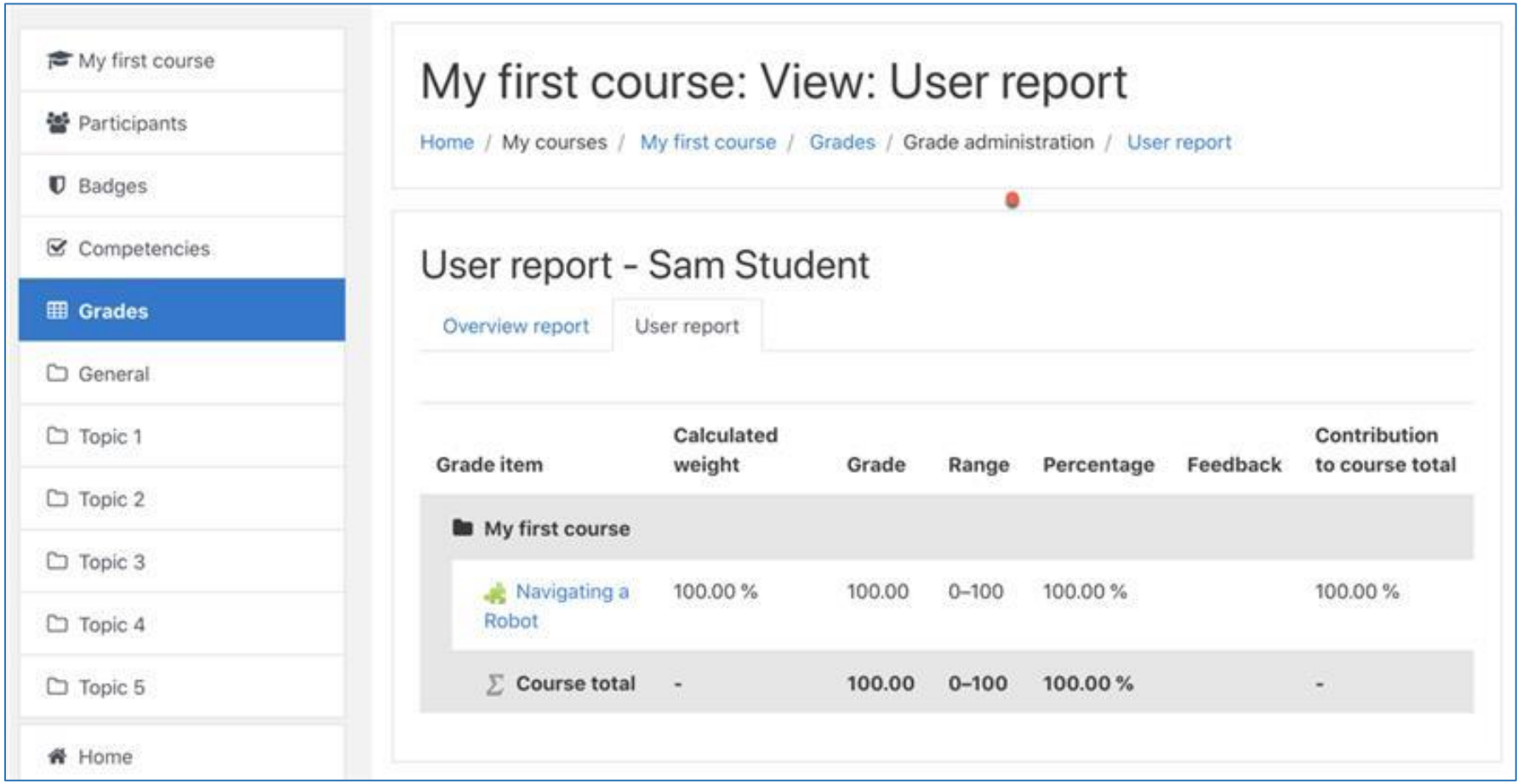
Student Experience



"The fact that you can get immediate feedback … is really neat, and without it, debugging your own code would really be a mess. It also motivated me to get 100% score on all the MATLAB assignments."

– Student, Virginia Tech

Grading and Learning Metrics



"The approach enables students to learn more quickly from their mistakes on their own."

– Dr. Bob Canfield, Virginia Tech

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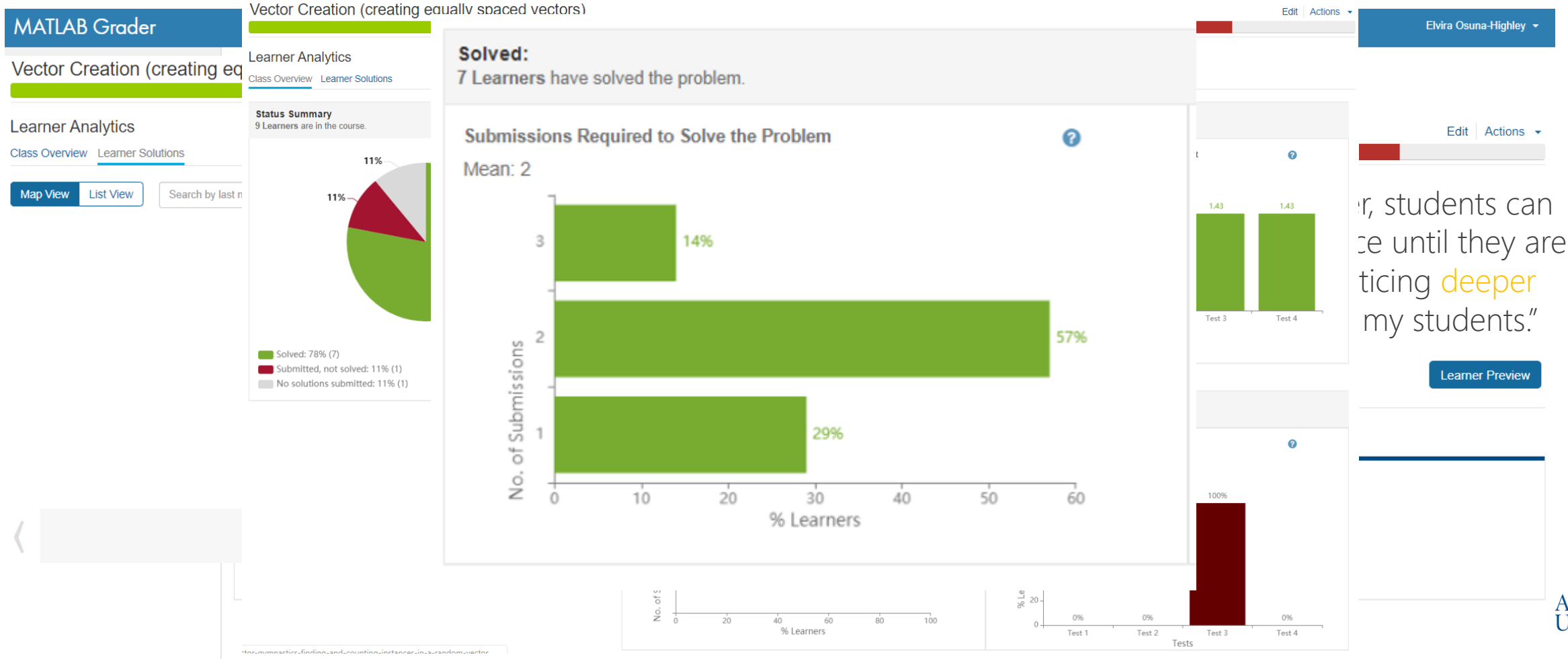
Grading and Learning Metrics



Access

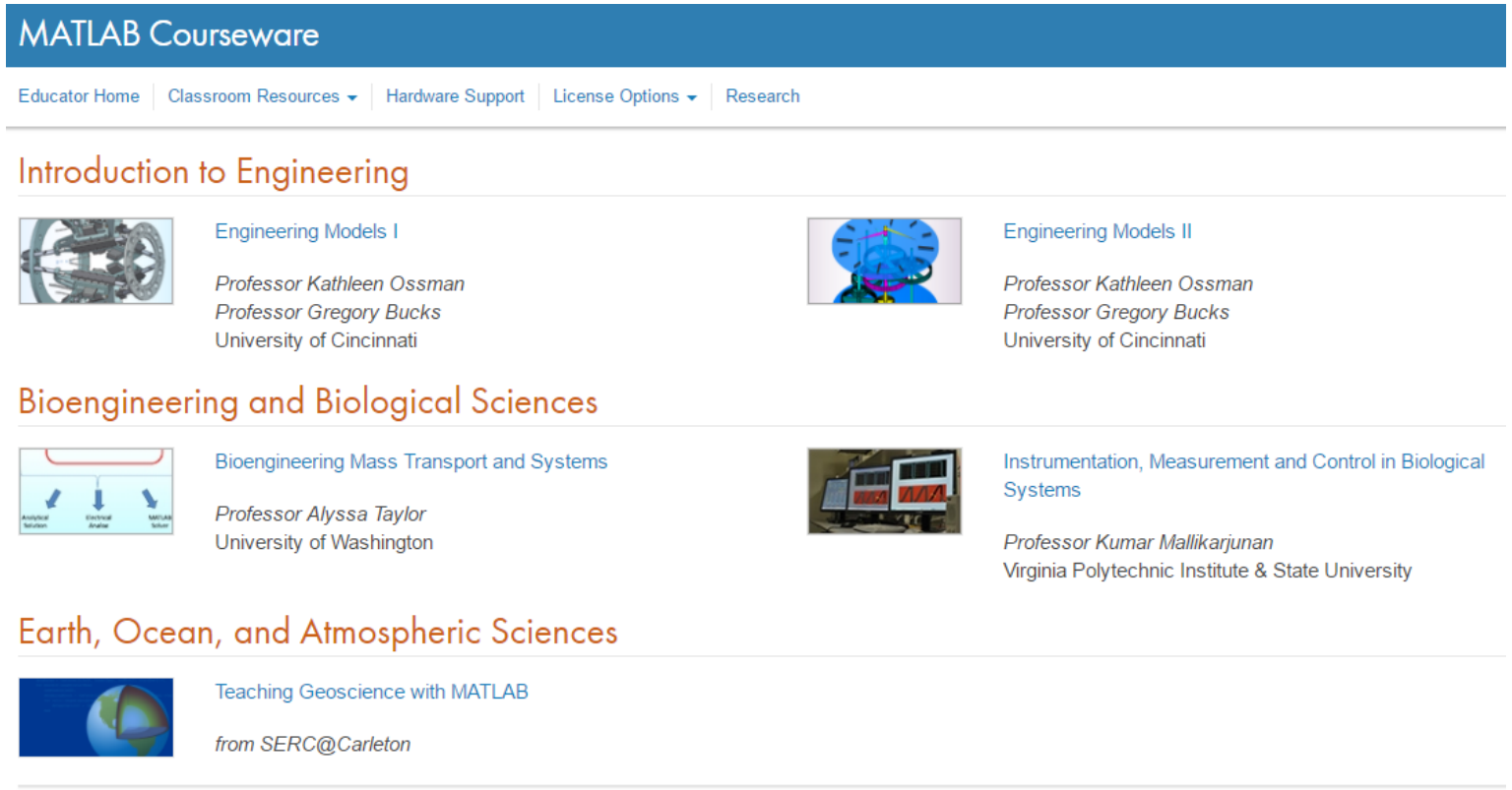
Instruction

Assessment

Getting Help

MATLAB Courseware

Teaching resources created by your peers



Teaching Kits for Free

Download content consisting of:

- Lecture Notes
- Project Ideas
- Accompanying Code

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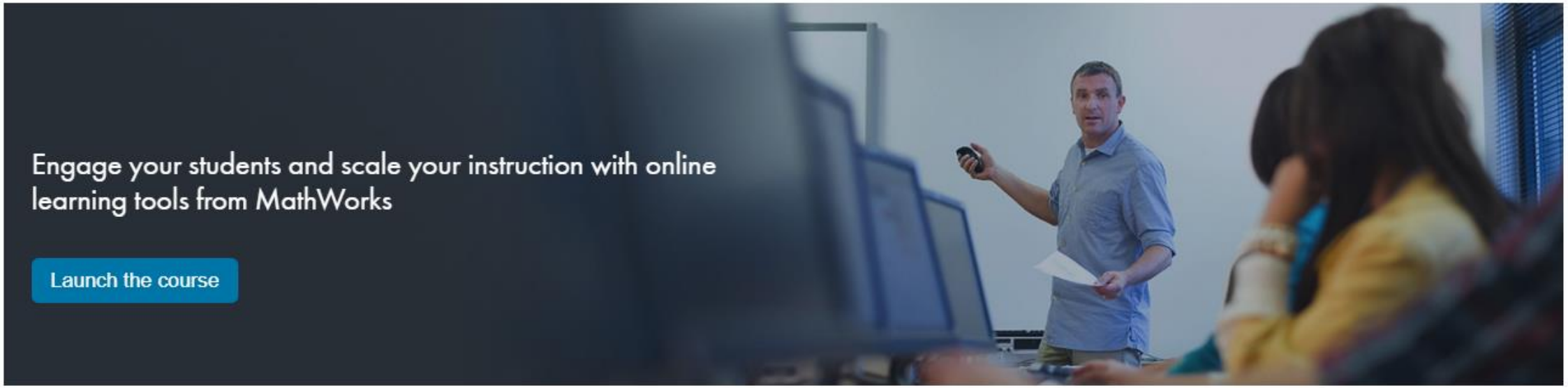
Training for Educators



Access to MATLAB through your web browser

MATLAB integrated file sharing

Hands-on exercises with automated assessments and feedback

Ready-to-use resources to enhance your instruction

MathWorks® Products Solutions Academia Support Community Events Get MATLAB

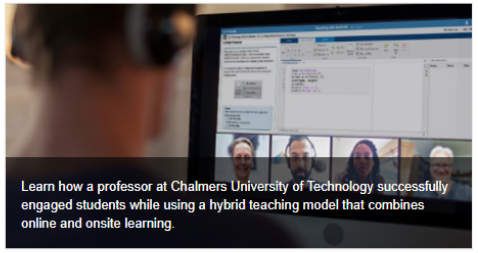
Educators

Search MathWorks.com

Teach with MATLAB and Simulink | Curriculum Resources | Online Teaching | Campus-Wide License

Online Teaching with MATLAB and Simulink

Whether you are transitioning a classroom course to a hybrid model, developing virtual labs, or launching a fully online program, MathWorks can help you foster active learning no matter where it takes place. Here you will find resources and ideas for providing hands-on experiences with MATLAB and Simulink, plus tools for delivering instruction, engaging students, and assessing outcomes.



Instructional Resources

Virtual Labs and Projects

Online Assessments

Create Engaging, Interactive Course Materials

Make your courses more interactive, promote self-directed learning, and increase student engagement through Live Editor and MATLAB apps.

Use MATLAB on the desktop or MATLAB Online to create live scripts. Share live scripts with students through your university's learning management system or using MATLAB Drive. Learn more about creating and sharing live scripts for applications such as flipped classrooms on the Instructional Resources page.

In addition, you can host and run a collection of MATLAB apps on your own MATLAB Web App Server at your university.

https://www.mathworks.com/academia/online-teaching.html

MathWorks® Products Solutions Academia Support Community Events

Distance Learning Community

Search Dis

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Keep Teaching through Distance Learning

Posted by Loren Shure, March 23, 2020

As many universities are moving quickly to distance learning, it is vital for educators to think carefully about how to adapt their approach to still deliver key learning outcomes for students in an online setting.

» Read more...

Discussions

Start a discussion

Welcome to the Distance Learning Community
Latest activity by jiro on 30 Mar 2020 at 13:17
Tags: distance_learning
0 replies

Tell us your story
Latest activity by jiro on 30 Mar 2020 at 13:05
Tags: distance_learning
0 replies

» View all discussions

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www.mathworks.com/matlabcentral/topics/distance-learning.html

Next Steps Checklist

- ✓Complete the Online Training for Educators
- ✓Add MATLAB Onramp and/or Simulink Onramp to courses
- ✓Convert coding examples to interactive Live Scripts
- ✓Tell your LMS administrator to add MATLAB Grader to your LMS
- ✓Virtualize your labs with MATLAB Mobile and ThingSpeak

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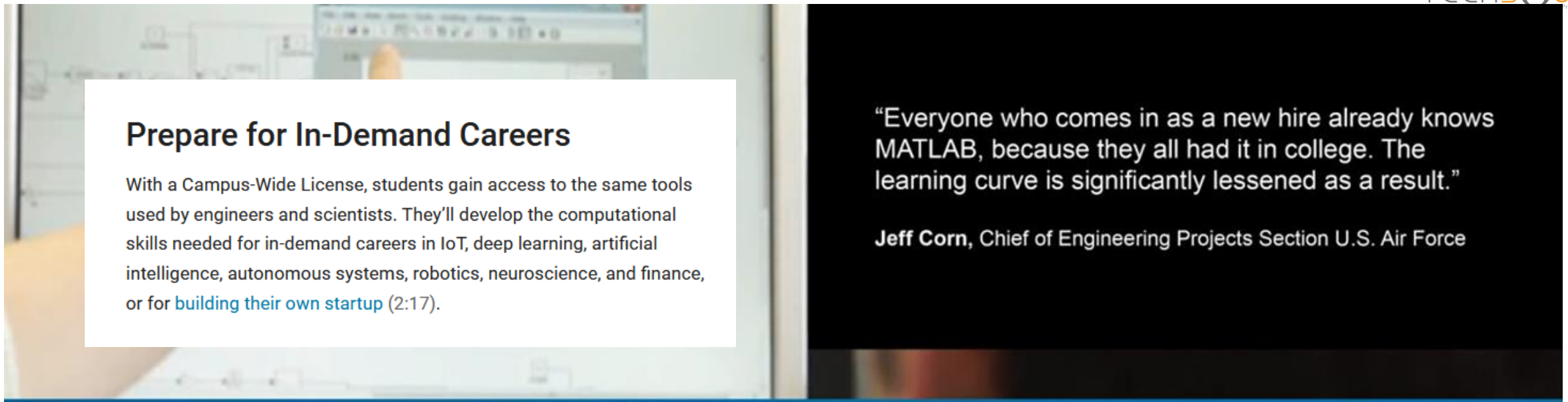
TechSource Systems Edu Team

consult with faculty and researchers to support them with their STEM initiatives, including integrating computational or systems thinking into their curriculum.

intan.matdali@techsource-asia.com



Prepare for In-Demand Careers

With a Campus-Wide License, students gain access to the same tools used by engineers and scientists. They'll develop the computational skills needed for in-demand careers in IoT, deep learning, artificial intelligence, autonomous systems, robotics, neuroscience, and finance, or for building their own startup (2:17).

"Everyone who comes in as a new hire already knows MATLAB, because they all had it in college. The learning curve is significantly lessened as a result."

Jeff Corn, Chief of Engineering Projects Section U.S. Air Force

More than **3.9 million students and over 1,200 universities** around the world—including the top 10 ranked universities—have unlimited access to MATLAB and Simulink with a Campus-Wide License.

HANDS-ON LEARNING

92,500

Faculty and students using MATLAB to program hardware

"On multidisciplinary projects, students with quite different educational backgrounds can work together more easily because they are using the same tools."

Professor Jakob Stoustrup, Aalborg University

JOB OPPORTUNITIES

82%

Fortune 100 companies with a MATLAB license

"If you want to work at Google, make sure you can use MATLAB."

Jonathan Rosenberg, Senior Vice President of Products, Google

RESEARCH PRODUCTIVITY

2,570,000

Google Scholar results referencing MATLAB

"Our teams are here to do world-class research, and easy access to MATLAB enables them to be their most productive."

Shailesh Shenoy, Director of Research Computing, Albert Einstein College of Medicine of Yeshiva University

LINK®

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UPCOMING EVENTS....

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WEBINARS

MATLAB EXPO

TRAINING COURSES

HANDS-ON WORKSHOPS

For more info, visit
https://www.techsource-asia.com/events

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Featured Event

AI for Everything

24 Aug 2022 | 15:00 (GMT+8)

Register Now

Free Live Events

Deep Learning for Images

17 Aug 2022 | 15:00 (GMT+8)

Register Now

Automated Driving with MATLAB & Simulink Workshop

11 Aug 2022 | 14:00 (GMT+7) | TH

18 Aug 2022 | 13:30 (GMT+7) | EN

Register Now

Deep Learning with MATLAB Workshop

30 Aug 2022 | 15:00 (GMT+8)

Register Now

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MORE THAN 54 COURSES

BASIC, ADVANCED & CUSTOMIZED COURSES

TAUGHT BY EXPERTS

CERTIFICATE OF COMPLETION

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MATLAB® & SIMULINK®

CONSULTANCY

- Expert Knowledge
- Proven Solutions
- Accelerate your projects

READY TO TALK?

For more info, visit https://www.techsource-asia.com/company/#contact-us

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EXIT POLL

YOUR FEEDBACK IS VALUABLE TO US!

Online Learning and Virtual Labs with MATLAB and Simulink - August 4th, 2022 (office.com)

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Get in touch with us

Thank you

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MATLAB®