

The background of the slide features a large, stylized arrow pointing to the right. The arrow is filled with a semi-transparent image of a steam locomotive engine, showing its front headlight, grille, and boiler. The text and logos are overlaid on this background.

**Georgia
Tech**



CREATING THE NEXT

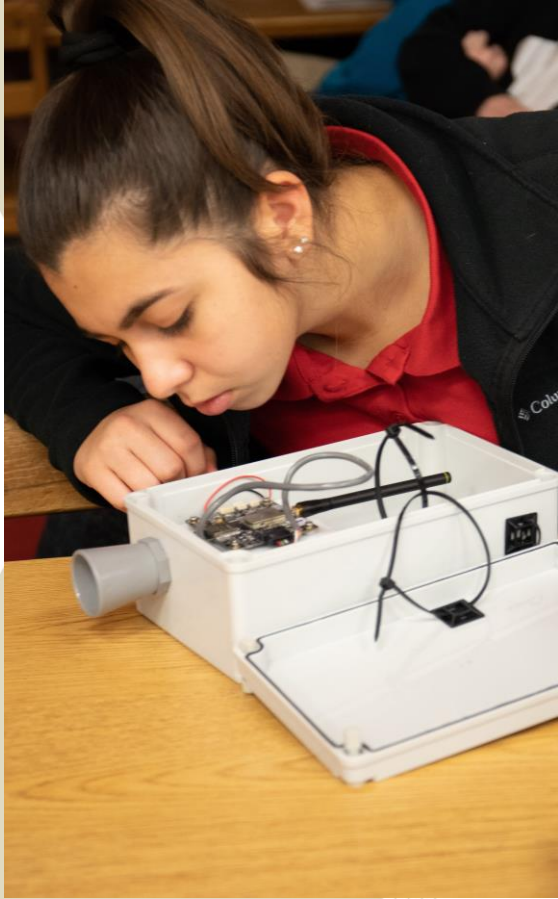
STEM / STEAM Resources Through CEISMC

Timothy Cone, MEd

Program Director – Savannah Campus

**Georgia
Tech**  **Center for Education
Integrating Science,
Mathematics & Computing**

Center for Education Integrating Science, Mathematics & Computing



Goal 1 - Inspiring STEM enrichment and outreach for students

Goal 2 - Intensive professional development for STEM educators

Goal 3 - Local and sustainable community partnerships

Goal 4 - Innovative STEM education

Goal 5 - Crucial research and impactful evaluation of STEM education

Goal 6 - Dynamic opportunities for Georgia Tech community engagement

[2019 Annual Report](#)



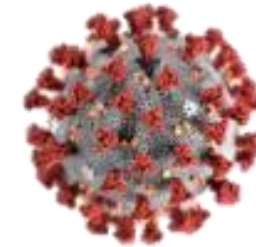
K12 STEM Connection

<https://k12.gatech.edu/>

A “*one stop shop*” of all things K-12 from across Georgia Tech.

- [Sign up for the newsletter!](#)
- [List](#) of upcoming on-campus and virtual events for students and teachers

STEAM FROM A DISTANCE



<https://ceismc.gatech.edu/STEAMfromADistance>

Includes *events, GT resources, and recommendations from across the web for distance learning.*

- [STEM@GTRI](#)
- [Latino College & STEM Fair](#)



Advanced Manufacturing & Prototyping Integrated to Unlock Potential

<https://ampitup.gatech.edu/>

Extensive **instructional materials for middle school** engineering, mathematics, and science courses that are available for **free download**.

- [STEM ID](#) – Three 18-week courses for 6th, 7th, and 8th grade that can be taught as an engineering or STEM connections course sequence
- [Science Modules](#) – Nine 1-week modules that are situated in earth, life, and physical science contexts
- [Math Modules](#) – Nine 1-week modules that cover topics in statistics and algebra



SMART
SEA LEVEL SENSORS

<https://www.sealevelsensors.org/>

An installation of 48 environmental sensors installed in Chatham County to monitor sea levels in real-time.

All data is open source and a **free science module** has been designed for 6th grade.

- [Module and supporting webinars link](#)
- [API Link](#)



CULTURALLY AUTHENTIC PRACTICE TO
ADVANCE COMPUTATIONAL THINKING IN YOUTH

<https://www.ceismc.gatech.edu/capacity>

NSF funded curriculum designed for the ***Introduction to Digital Technology (IDT)*** course to connect computer science to math and science core classes.

Research is focused on increasing interest in CS amongst under-represented populations.

Schools can ***apply now to adopt the curriculum.***

K-12



<https://k12inventure.gatech.edu/home>

Invention based competition for K-12 students. ***Free curriculum is available*** to teach the engineering design process and more. Competition fees are required to participate in regional and state competitions.

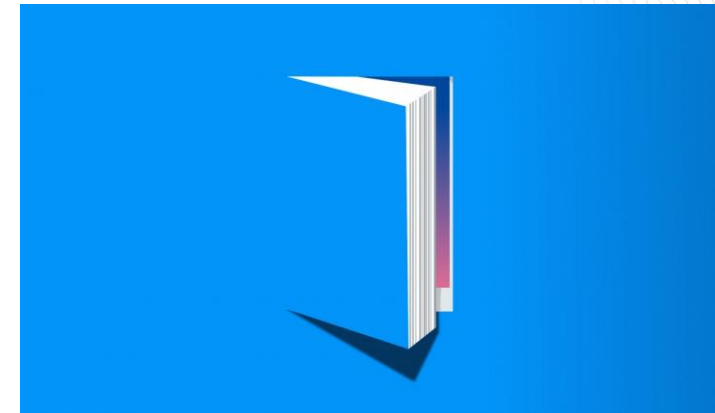
- [K-12 curriculum](#)
- [4th-8th grade curriculum](#)



<https://ceismc.gatech.edu/gift>

Opportunities for highly qualified teachers to participate in a **paid 7-week internship** with a local business, non-profit, or university.

Applications for 2021 will open in the spring.

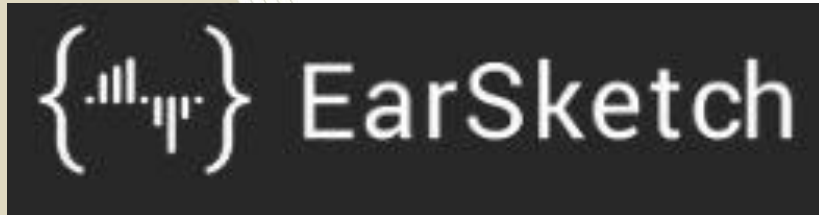


CEISMC Research Publications

<https://evaluation.ceismc.gatech.edu/publications-0>

Explore research publications and presentations to keep up to date on the latest in STEM and the data behind many of our programs.

Many are available for **free download**.



<http://earsketch.gatech.edu/landing/#/>

Teach coding (python) through the creation of music!

Free web-based software, free curriculum, and free competition!

Primarily targeted at upper middle through high school.

- [Competition link](#)
- [Curriculum link](#)



<https://code.org/>

A comprehensive **free CS curriculum** for K-12 students with supporting web based apps, games, and web challenges.

Designed to be taught by teachers with no CS background.

- [Summer professional development link \(registration fees apply\)](#)

The Links! The Links!

www.ceismc.gatech.edu	Main CEISMC page
www.ceismc.gatech.edu/savannah	Main CEISMC Savannah page
https://k12.gatech.edu/	One stop shop
https://ceismc.gatech.edu/STEAMfromADistance	At home and virtual teaching links
https://www.gtri.gatech.edu/stem	GTRI STEM
https://www.gtri.gatech.edu/stem/steam-resources-remote-learning	At home projects
https://wie.gatech.edu/k12-outreach	Women in Engineering
https://coe.gatech.edu/future-engineers/k-12-programs	College of Engineering
https://admission.gatech.edu/visit	Visit campus (high school only)
http://cs4k12.gatech.edu/index.html	College of Computing
https://pe.gatech.edu/programs/k12-programs	Professional Education
http://constellations.gatech.edu/	Constellations Center for Equity in Computing

But wait, there's more!

https://www.coursera.org/gatech	Free online courses
https://www.gpb.org/education/liveexplorations/invention	Live Exploration of Invention Studio
https://fll.gatech.edu/	First Lego League Competition
https://ai4all.ceismc.gatech.edu/georgia-tech-ai4all	Georgia Tech AI4ALL (Atlanta only)
https://gostem.gatech.edu/en/lcsf	Latino College and STEM Fair

Thank You!

Timothy Cone, MEd
CEISMC Savannah Campus
Program Director

210 Technology Circle
Savannah, GA 31407

912-966-7922 – work

706-201-5282 – cell

timothy.cone@ceismc.gatech.edu

www.ceismc.gatech.edu/savannah

