



AUTO-ISAC

MONTHLY COMMUNITY CALL

January 2020

AGENDA

Time (ET)	Topic
11:00	Welcome <ul style="list-style-type: none"> ➤ Why we're here ➤ Expectations for this community
11:05	Auto-ISAC Update <ul style="list-style-type: none"> ➤ Auto-ISAC overview ➤ Heard around the community ➤ What's Trending
11:15	<i>DHS CISA Community Update</i>
11:20	Featured Speakers <ul style="list-style-type: none"> ➤ <i>Amy K. Smith, Manager of Pre-College Education, SAE International</i>
11:45	Around the Room <ul style="list-style-type: none"> ➤ Sharing around the virtual room
11:55	Closing Remarks

WELCOME - AUTO-ISAC COMMUNITY CALL!

Purpose: These monthly Auto-ISAC Community Meetings are an opportunity for you, our Members & connected vehicle ecosystem partners, to:

- ✓ Stay informed of Auto-ISAC activities
- ✓ Share information on key vehicle cybersecurity topics
- ✓ Learn about exciting initiatives within the automotive community from our featured speakers

Participants: Auto-ISAC Members, Potential Members, Partners, Academia, Industry Stakeholders, and Government Agencies

Classification Level: TLP GREEN: may be shared within the Auto-ISAC Community, and “off the record”

How to Connect: For further info, questions, or to add other POCs to the invite, please contact Auto-ISAC Membership Engagement Lead Kim Engles (kimengles@automotiveisac.com)

ENGAGING IN THE AUTO-ISAC COMMUNITY

❖ Join

- ❖ If your organization is eligible, apply for Auto-ISAC membership
- ❖ If you aren't eligible for membership, connect with us as a partner
- ❖ Get engaged – *“Cybersecurity is everyone's responsibility!”*

19
*Navigator
Partners*

12
*Innovator
Partners*

❖ Participate

- ❖ Participate in monthly virtual conference calls (1st Wednesday of month)
- ❖ If you have a topic of interest, connect our Membership Engagement Lead, Kim Engles – kimengles@automotiveisac.com
- ❖ Engage & ask questions!

20
OEM Members

37 *Supplier &
Commercial
Vehicle Members*

❖ Share – *“If you see something, say something!”*

- ❖ Submit threat intelligence or other relevant information
- ❖ Send us information on potential vulnerabilities
- ❖ Contribute incident reports and lessons learned
- ❖ Provide best practices around mitigation techniques

*Membership represents **99%**
of cars on the road in North
America*

*Coordination with **23**
critical infrastructure ISACs
through the National ISAC
Council*

AUTO-ISAC MISSION

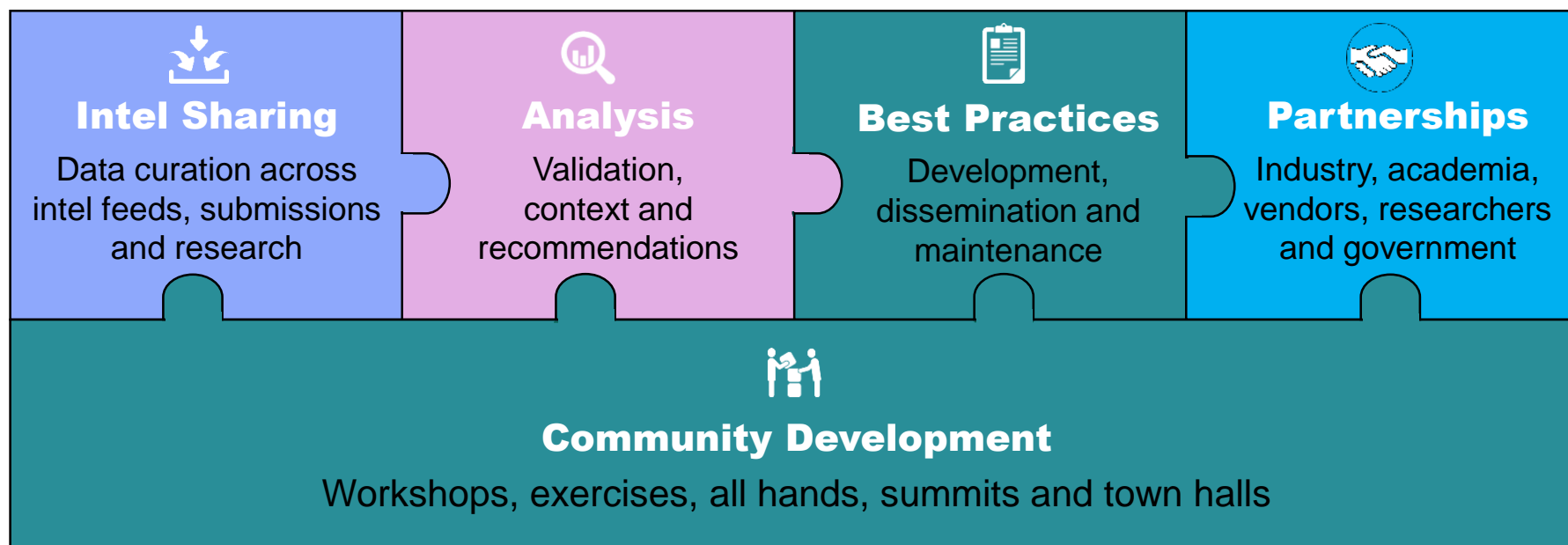
Mission

Serve as an unbiased information broker to provide a **central point of coordination and communication** for the global automotive industry through the analysis and sharing of trusted and timely cyber threat information.

Scope

Light- and heavy-duty vehicles, suppliers, commercial vehicle fleets and carriers. Currently, we **are focused on vehicle cyber security**, and anticipate expanding into IT/OT security related to the vehicle.

What We Do



2020 BOARD OF DIRECTORS

EXECUTIVE COMMITTEE (ExCom)



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Cummins

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RECENT ACTIVITIES

HIGHLIGHTS OF KEY ACTIVITIES IN DECEMBER

- **Auto-ISAC attended**
 - **Members Only Analyst Workshop in Novi, MI**
 - **Members Only Information Sharing Workshop in Novi, MI**
 - **Members Only Board of Directors and Affiliate Board Meetings in Novi, MI**
 - **Members Only All Members Meeting in Novi, MI**
 - **NCI Quarterly In Person Meeting in Washington, DC**

LOOKING AHEAD TO JANUARY

- **Auto-ISAC will be attending**
 - **CES 2020 in Las Vegas, NV**
 - **SANS Cyber Threat Intelligence Summit & Training in Arlington, VA**
 - **SAE Government Industry Meeting in Washington, DC**

WHAT'S TRENDING?

As vehicles collect more data and become increasingly connected, protecting user data will become a mo

-What Does Your Car Know About You? We Hacked a Chevy to Find Out: Cars have become the most sophisticated computers many of us own, filled with hundreds of sensors. Even older models know an awful lot about you. Many copy over personal data as soon as you plug in a smartphone. But for the thousands you spend to buy a car, the data it produces doesn't belong to you. ([Link](#))

-Connected Cars – A Boon or a Bane on our Privacy: The digital revolution is not doing our privacy any favors. A considerable amount of our lives are now dependent on the digital medium; from banking and paying for goods and services to just finding our way around. Some of us rely on apps just to get through the day. Naturally, technology's evolution dictates that all aspects of our lives get on board or online, as it were. And above all, Connectivity is the key to everything. But that also translates to giving strangers access to a lot of your information about you. ([Link](#))

-Police Get “Unprecedented” Data Haul from Google with Geofence Warrants: Forbes has discovered that Google has complied with so-called geofence warrants that have resulted in an “unprecedented” data haul for law enforcement: one in which Google combed through its SensorVault to find 1,494 device identifiers for phones in the vicinities of the fires and then handed them over to the Bureau of Alcohol, Tobacco, Firearms and Explosives (ATF). Privacy advocates say that geofence warrants are both overly broad and that they endanger privacy. ([Link](#))

-Senate's CISA Subpoena Bill Adds Privacy Protections to DHS Proposal: The Cybersecurity Vulnerability Identification and Notification Act of 2019 would allow CISA to subpoena subscriber information for enterprise devices or systems... Subpoenas would be issued when the director of CISA identifies internet connected systems with specific vulnerabilities, is unable to identify the entity at risk and "has reason to believe" it relates to critical infrastructure. The Senate bill, which was obtained by FCW, adds a provision not included in the original DHS proposal specifying that the authority cannot not be used for information relating to "personal devices and systems, such as consumer mobile devices, home computers, residential wireless routers, or residential Internet enabled consumer devices." ([Link](#))

For more information or questions please contact analyst@automotiveisac.com

DHS CYBERSECURITY AND INFRASTRUCTURE SECURITY AGENCY (CISA)

WHAT'S TRENDING?



CISA
CYBER+INFRASTRUCTURE

For more information about DHS CISA please visit <https://www.cisa.gov/>

COMMUNITY SPEAKER SERIES

Why Do We Feature Speakers?

- ❖ These calls are an opportunity for information exchange & learning
- ❖ Goal is to educate & provide awareness around cybersecurity for the connected vehicle

What Does it Mean to Be Featured?

- ❖ Perspectives across our ecosystem are shared from members, government, academia, researchers, industry, associations and others.
- ❖ Goal is to showcase a rich & balanced variety of topics and viewpoints
- ❖ Featured speakers are not endorsed by Auto-ISAC nor do the speakers speak on behalf of Auto-ISAC

6 *Best
Practice
Guides
available on
website*

How Can I Be Featured?

- ❖ If you have a topic of interest you would like to share with the broader Auto-ISAC Community, then we encourage you to contact our Membership Engagement Lead, Kim Engles (kimengles@automotiveisac.com)

1800+
*Community
Participants*

25 *Featured
Speakers to date*

COMMUNITY SPEAKERS

EXAMPLE OF PREVIOUS COMMUNITY SPEAKERS

- **Urban Jonson**, NMFTA, Heavy Vehicle Cybersecurity Working Group (April 2018)
- **Ross Froat**, American Trucking Association, ATA Cyberwatch Program (Oct 2018)
- **Dan Sahar**, Vice President of Product of Upstream, 2019 Automotive Cybersecurity Report (June 2019)
- **Katherine Hartman**, Chief – Research, Evaluation and Program Management, ITS Joint Program Office, US DOT (August 2019)
- **Joe Fabbre**, Global Technology Director, Green Hills Software (October 2019)
- **Oscar Marcia**, CISSP, Eonti, Device Authentication in Auto-ISAC as a Foundation to Secure Communications (November 2019)

Past Community Call Slides are located at: www.automotiveisac.com/communitycalls/

WELCOME TO TODAY'S SPEAKER



Amy Smith, the Manager of Pre-College Educational Programming at SAE International. She oversees the strategic direction, development, management and delivery of SAE's PreK-12 formal education programs, including the National Science Board Award winning *A World In Motion*® (AWIM) program. Amy leads numerous initiatives designed to increase STEM engagement and achievement at the PreK-12 level. These initiatives include, Cybersecurity, software development, automated technologies and other integrated workforce development themes. In addition, Amy is proud to manage a staff whose purpose and passion is to increase the number of students who pursue educational and career paths in STEM-related fields, provide critical age-appropriate skill development, and enhance teacher professional development.

Most recently, Amy spearheaded the development and implementation of SAE's *Information Technology & Cybersecurity* curriculum project, rolling out the first-of-its-kind *Cybersecurity: Keeping Our Networks Secure Challenge*. This, along with additional challenges currently in development, including one with a programming focus, will provide opportunities that could change the course of IT education.

Nine years as a high school mathematics teacher combined with management experience within various educational organizations has helped cultivate Amy's passion for high-quality STEM education that helps mold tomorrow's workforce. Amy holds a Bachelor of Science in Applied Mathematics and Education and a Master of Science in Instructional Leadership.

SAE INTERNATIONAL

A WORLD IN MOTION®

**Hands-on Cybersecurity Education in a K-16
STEM Experience Continuum**

WHO WE ARE

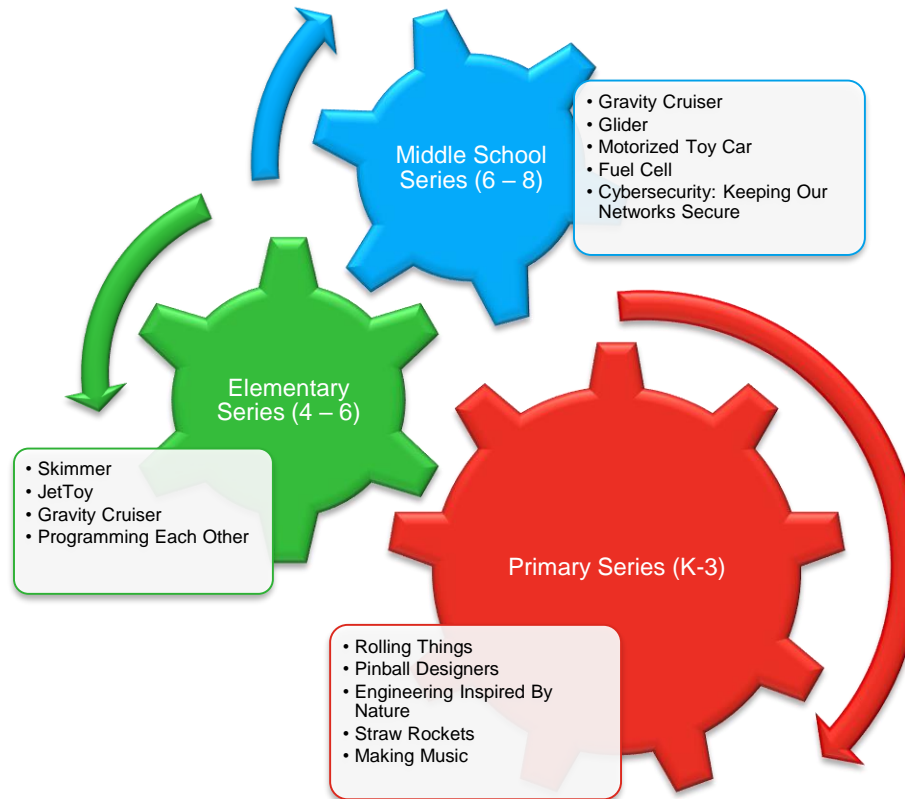


WHAT WE DO



A WORLD IN MOTION®

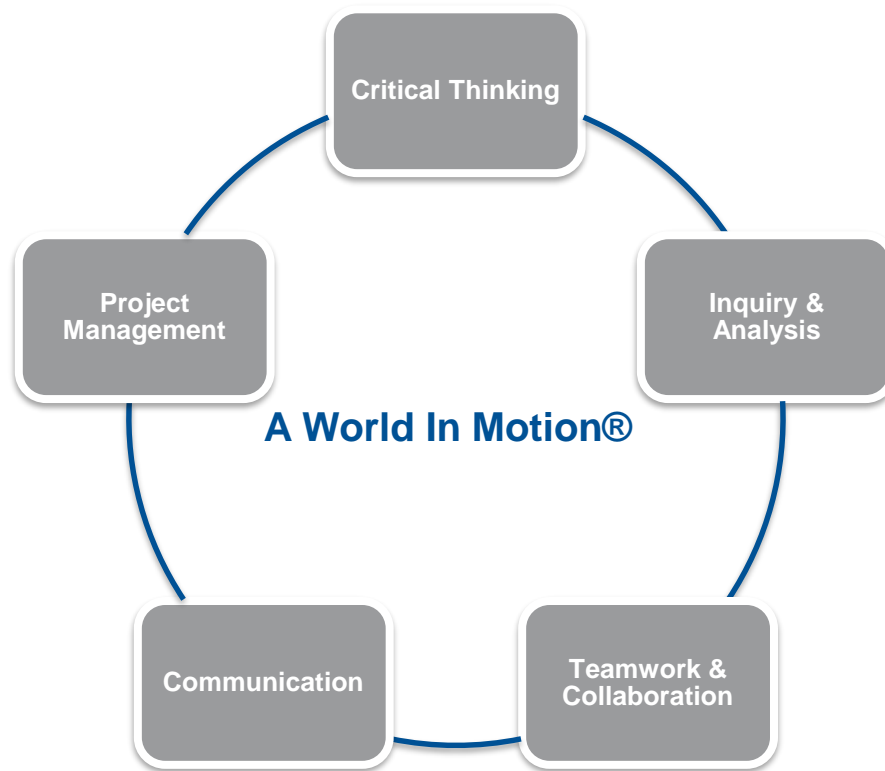
AWIM AT A GLANCE



AWIM IN ACTION



CORE COMPETENCIES



WHY IT EDUCATION?

Computing Occupations:

- 58% of all projected new jobs in STEM fields
- #1 source of new wages in the United States
- one of the highest-paid bachelor degrees

...yet not many schools teach computer science

[Sources](#)

Partnering with General Motors, SAE developed:

- Fun, hands-on activities designed to build strong IT foundation
- “Unplugged” explorations enable students to comprehend and apply computational thinking free of resource limitations
- Collaborative lesson structure that promotes teamwork, creative problem-solving, and critical thinking

PROGRAMMING EACH OTHER

INTRODUCING THE CHALLENGE

REPRODUCIBLE MASTER 1.1 (1 OF 2): SCIENCE NOTEBOOK

Name _____ Date _____

Letter from CodeWorks Publishing

Dear Students:

We need your help! CodeWorks Publishing is working with a famous author, Al Gore Rythim, who is writing a book to teach young children about programming. Programming is important because it allows us to use machines to do tasks that are really difficult, boring, or repetitive. The main character is an absent-minded programmer, H. T. Mel, who keeps writing programs for his robot that aren't quite right. The programs look okay to H. T., but when the robot tries to follow them, things go hilariously wrong!

Our CodeWorks team wants to include some examples in this book of

REPRODUCIBLE MASTER 1.1 (2 OF 2): SCIENCE NOTEBOOK

Name _____ Date _____

- With your team, choose an everyday task—such as following a recipe or carrying out a simple chore—that you'd like to write a program for. The task should be interesting and complex enough to provide both an absent-minded program that can go wrong and a well-thought-out program that can go right.
- Write your absent-minded program and describe how it goes wrong.
- Write your well-thought-out program and describe how it fixes the problems of the absent-minded one.

VISUAL AID 1.1

Name _____ Date _____

Codeworks Publishing Idea Planner

Action	Ready (✓)
1. Discuss the ideas you've had for programs that would be fun and interesting to include in the CodeWorks Publishing book.	
2. Choose an interesting yet complex task to use for your programming challenge.	

- Learn how to break down a task into logical steps
- Think about how a program would change if you had to do a task a different way
- Write an absent-minded program for an everyday task and describe how it goes wrong
- Write a well-thought-out program and describe how it fixes the problems of the absent-minded one

SAE International © 2016

different way—say, instead of taking your usual route to school, you have to make a detour, or instead of making just one sandwich, you need to make 24 sandwiches for all of your friends.

1 Introducing the Programming Each Other Challenge

Pascal B. Asic

Pascal B. Asic
resident, CodeWorks Publishing

1 Introducing the Programming Each Other Challenge

SAE International © 2016

class. Your presentation should be about 5 minutes long. You could use PowerPoint, make a poster, shoot a video, write and perform a skit, or do something else entirely.	
5. Decide which member of your team will present which parts of the presentation.	
6. Think about the types of questions your audience might have and consider how your team would answer those questions.	

14 1 Introducing the Programming Each Other Challenge

EXPLORING BASIC PROGRAMMING

Students write programs to systematize everyday activities

Tasks increase in complexity with each activity to introduce fundamental concepts, including:

- Loops
- Conditional Statements
- Variables
- Parallelization
- Error handling

REPRODUCIBLE MASTER 6.2: TEAM PORTFOLIO

Name _____ Date _____

Programming with Variables

Use this sheet to write your program.
Our program will _____
Our variables are:

Variable	Variable Name
number of colors	colors

Program
Step 1:
Step 2:
Step 3:
Step 4:
Step 5:
Step 6:

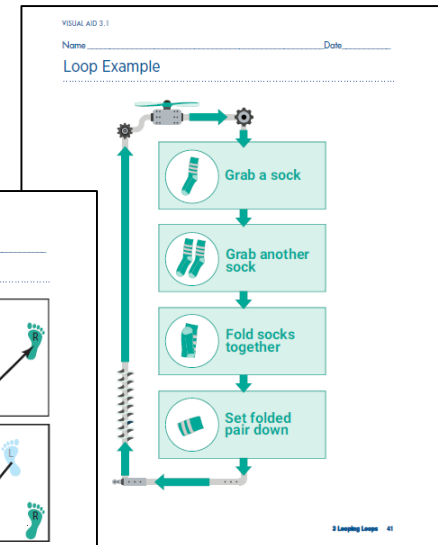
REPRODUCIBLE MASTER 3.1: TEAM PORTFOLIO

Name _____ Date _____

Activity Card: Dance Steps

Return to Step 1

3 Looping Loops 38



STUDENT PRESENTATIONS

Teams first present absent-minded program

- Explain how program can go wrong

Teams then present companion program

- Explain how program completes task correctly and efficiently
- Include explanation of programming techniques used

REPRODUCIBLE MASTER 8.1: TEAM PORTFOLIO

Name _____ Date _____

Checklist for Our Project

Part A. Absent-Minded Program	Ready (✓)
Choose an activity for your program.	
With your teammates, think about all the steps that need to be done to complete this activity.	
Turn the steps into instructions for a robot. Remember, these instructions should NOT be perfect.	
Test your program.	
If your program works too well, think about how you could make it a little more absent-minded or "buggy." Revise your program to add some more issues.	
Part B. Well-Thought-Out Program	Ready
Test your absent-minded program with your team again.	
Make notes of where the program could cause the robot to make mistakes.	
Fix your program so it functions properly.	
Test the instructions again.	
<i>Is your program as efficient as it could be? Have you used all the programming techniques you learned to create the best program possible, including writing precise instructions, breaking down a problem into smaller parts, employing loops, using if-then-else statements (conditionals), and debugging?</i>	
Make final changes to your program and test it one last time.	

112 © Programming Our Absent-Minded Task

REPRODUCIBLE MASTER 9.2 (1 OF 2): TEAM PORTFOLIO

Name _____ Date _____

Checklist for Our Final Presentation

Use this checklist to plan your final presentation to CodeWorks Publishing. As your team completes each task, put a check (✓) in the right-hand column.

Action	Our ideas:	Ready (✓)
1. Discuss the ideas you've had for programs that would be fun and interesting to include in the CodeWorks Publishing book.		
2. Choose an interesting yet complex task to use for your programming challenge.	Our chosen task:	
3. Make versions of your two programs that you can present to your classmates. You can use presentation software, chart paper, or another method you dream up. Remember that you need to have four things:		
a. An absent-minded version of the program		a. _____
b. An explanation of the places where the program goes wrong		b. _____
c. A well-thought-out program		c. _____
d. An explanation of what programming techniques you used in the working program		d. _____

© Making Our Program Work 123

CYBERSECURITY: KEEPING OUR NETWORKS SECURE

INTRODUCING THE CHALLENGE

Letter from Jupiter Motors

Dear Students:

We need your help! Jupiter Motors, Inc., is developing a new driverless car for the market in the fall of next year. Unfortunately, our user focus groups are concerned about the security of these cars. Because our cars receive information from potential drivers are afraid that hackers could take over their cars while they are driving or sabotage them or drive them off the road.

As supervisors of technology, young people have a comfort level and a familiarity with technology that our target market (drivers ages 35-55) does not. That's why our Jupiter Motors marketing team is seeking fresh ideas from young people like you to help develop marketing materials that will make our target market more comfortable about the security of driverless cars.

We suggest that your team takes the following steps to help us:

1. Learn how information moves over the Internet.
2. Learn as much as you can about how that information stays safe over the Internet.
3. Think about how you can explain to our intended audience what that information is safe.
4. Decide how you will present your pitch to your audience. You might use a TV commercial, a website, a podcast, or a series of social media posts (e.g., Instagram posts, etc.). Remember: Choose the medium that you think will reach the audience you're trying to reach.

Marketing Idea Planner and Checklist

Name _____ Date _____

Use this planner to develop a marketing plan with your team. As you complete each step, mark an **X** in the right-hand column to show that this part is ready.

Task	Ready
1. Collect all the work you do over the course of the project.	
2. In your Science Notebook, keep track of any thoughts or ideas about how what you've done relates to your project.	
3. In your Team Marketing Portfolio, keep track of your team's marketing activities you've done.	
4. Make sure that your marketing idea fulfills the following requirements: <ul style="list-style-type: none">Requires little prior knowledge to understandMakes people feel safe and secure about the security of their cars	

Why Is Network Security Important?

Name _____ Date _____

Answer the following questions:

1. What types of things do you know about that use the Internet?
2. Why do you think it would be important for these communications to be secure?

Team Reflections on Keeping Networks Secure

Name _____ Date _____

Answer the following questions:

1. What are some other systems that need to be kept secure like Jupiter Motors' communications with their cars?
2. In these systems, what information needs to be kept secure?

Challenge Objectives:

- How information flows through the internet
- How the internet keeps information flowing in case of failure
- How information is kept secure—both where it is stored and while it is being transmitted
- How systems know what information and data can be trusted

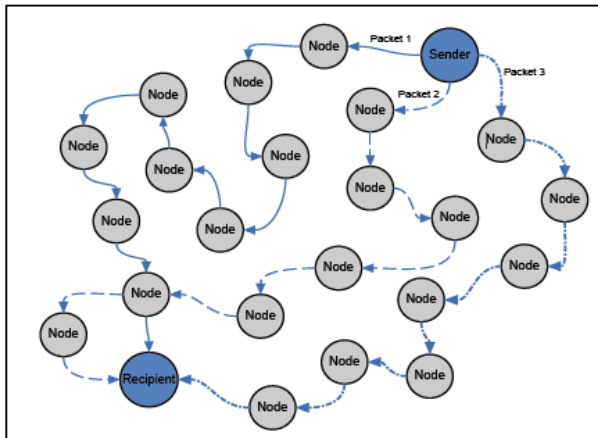
Reproducible Master 1.3 | 10 Introducing the Challenge | 10 Introducing the Challenge | Reproducible Master 1.4

MODELING THE INTERNET

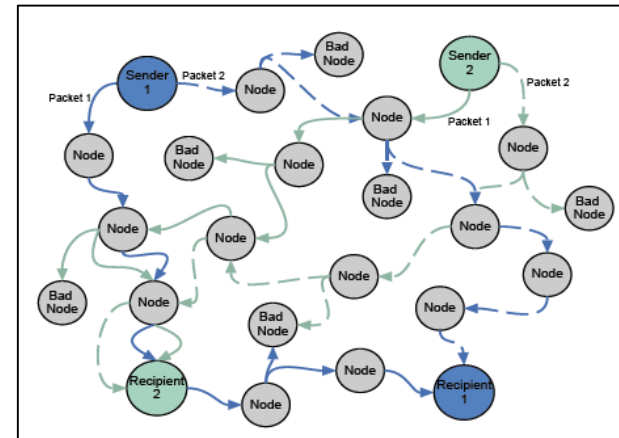
TCP (Transmission Control Protocol) and IP (Internet Protocol)

Hands-on simulations using physical classroom models help students better understand:

- How messages are addressed and routed on the internet
- How the internet is able to overcome system failures.



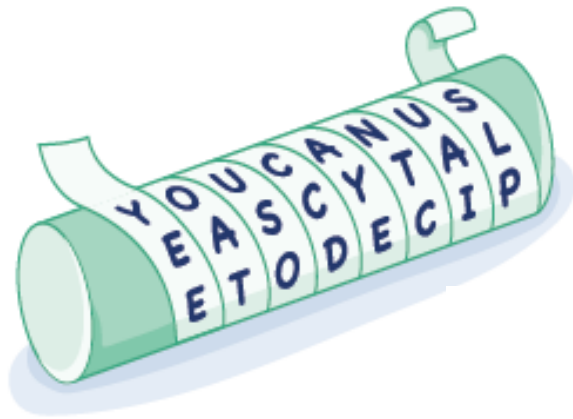
1 Sender, 1 Recipient



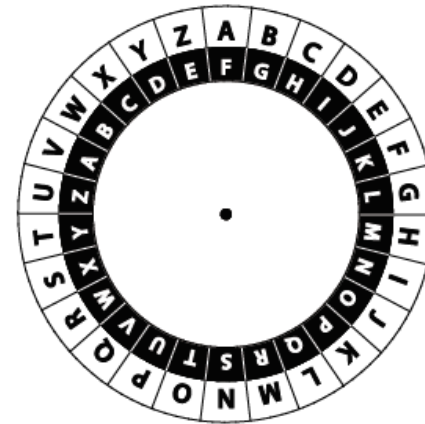
2 Senders, 2 Recipients, Bad Nodes

DECIPHERING MESSAGES

Ancient cultures secured messages using cryptography, the art of writing then deciphering codes.



Scytale
(Transposition Cipher)



Cipher Wheel
(Substitution Cipher)

Students develop marketing plans for Jupiter Motors to:

- Demonstrate learning gained from simulations
- Address buyers' fears about internet security
- Plan presentations and understand scoring based on included rubric

Name _____ Date _____

Presentation Planner and Checklist

Use this planner to develop a marketing presentation for your classmates. Your presentation can include visual aids, such as posters, illustrations, or projections from a computer. As your team completes each task, put an **X** in the right-hand column to show that this part is ready.

Task	Ready <input type="checkbox"/>
1. Discuss the important things you learned and what you think you need to include in your marketing idea. Make a list of those things below (use the back of this worksheet, if necessary):	
2. Determine the form that your marketing idea will take (a website, podcast, video, newspaper ad, or something else). We chose to create a _____	
3. Create a script or storyboard for your idea. Make sure that you include: ▶ An explanation of why you chose this medium (poster, brochure, podcast, video, website, etc.) for your marketing campaign ▶ What your marketing idea is and why you chose it ▶ A discussion of how the team's work over the course of the unit factored into the development of the campaign	
4. Decide who will present each part of your presentation.	
5. Revise your script or storyboard to match your final plan.	
6. Think about the types of questions that your audience might have, and consider how your team would answer those questions.	
7. (Optional) Create visuals to support your presentation.	

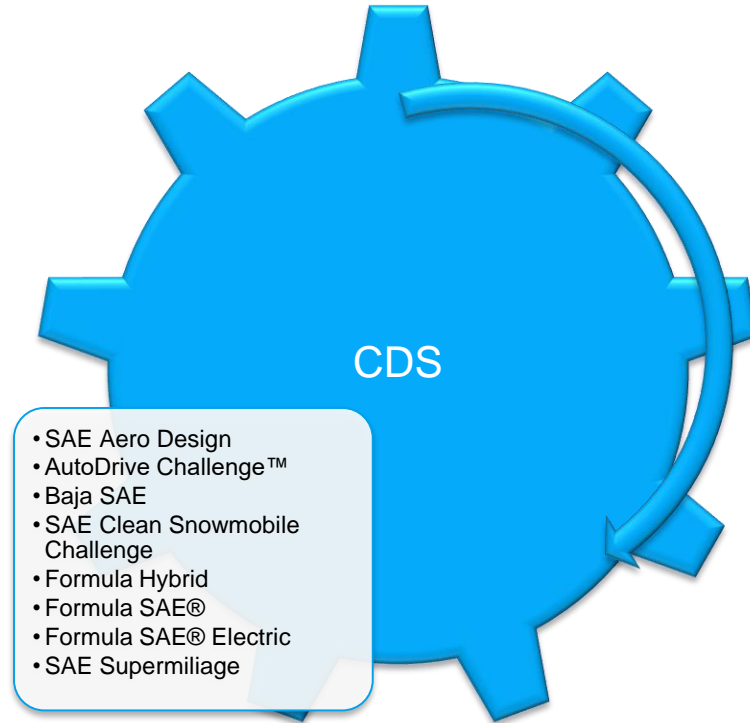
SAE International © 2017

Reproducible Master 9.1

82 9 Developing Marketing Ideas

COLLEGIATE DESIGN SERIES™

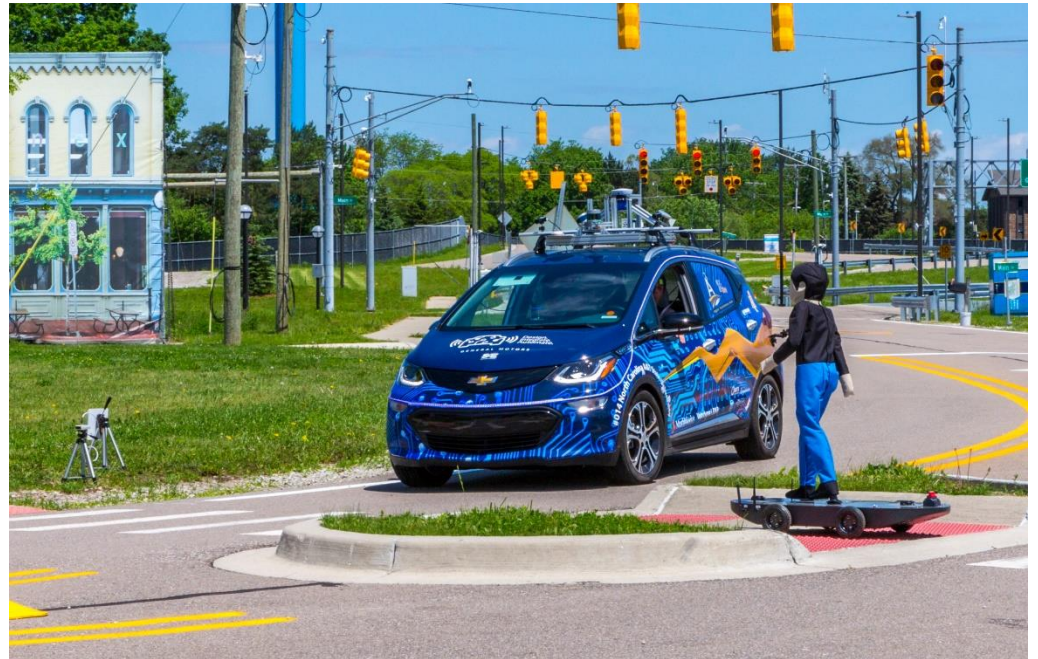
CDS AT A GLANCE



AUTODRIVE CHALLENGE™

AutoDrive Challenge™

SAE International and General Motors has recently partnered in the development of the AutoDrive Challenge™.



AutoDrive is a four year (2018-2021) collegiate autonomous vehicle competition that challenges university teams of students in:

- Computer science
- Mechanical/electrical
- Software engineering



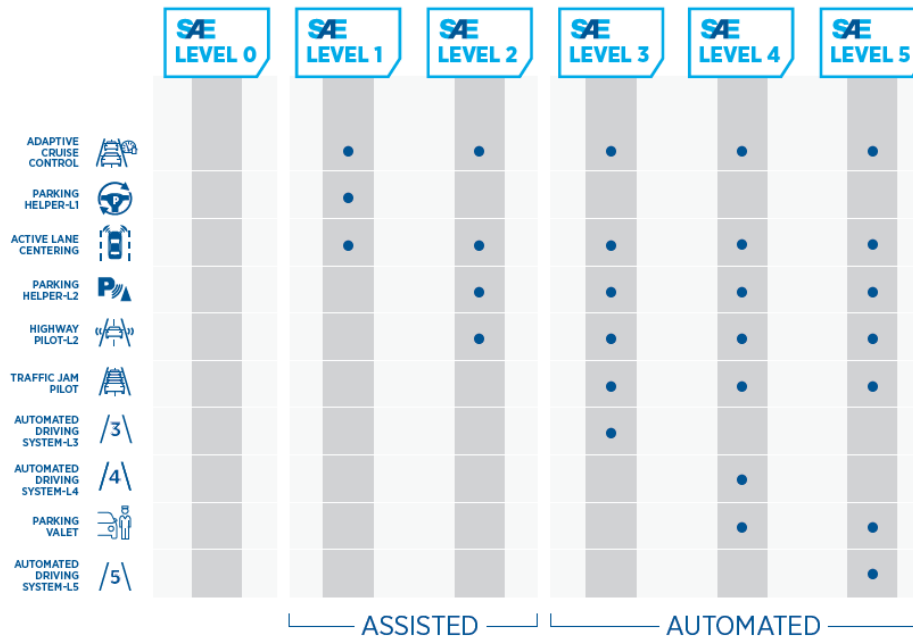
Students develop mobility software and show their progression of sensor fusion on their donated Chevrolet Bolt EV.

Teams also integrate the latest technology sensors and tools into an SAE J3016 Level 4 Automated Vehicle.

AutoDrive Challenge™



SAE J3016™ LEVELS OF DRIVING AUTOMATION



LEVELS

- 0 NO DRIVING AUTOMATION**
You drive; vehicle can provide driving assist features
- 1 DRIVING AUTOMATION ASSISTANCE**
Either steering or braking assist but not at the same time
- 2 PARTIAL DRIVING AUTOMATION**
Steering AND braking assist together as support feature only; human driver must supervise
- 3 CONDITIONAL DRIVING AUTOMATION**
Automation of full driving task with human fallback; driver must respond promptly when alerted
- 4 HIGH DRIVING AUTOMATION**
Full automation but only in pre-determined conditions; human must drive when system is not engaged
- 5 FULL DRIVING AUTOMATION**
You never have to drive anywhere unless you want to

**FOR MORE INFORMATION,
PLEASE VISIT:
SAE.ORG/LEARN/EDUCATION**

**OR CONTACT ME AT:
AMY.SMITH@SAE.ORG**

OPEN DISCUSSION

*ANY QUESTIONS ABOUT THE
AUTO-ISAC OR FUTURE TOPICS
FOR DISCUSSION?*

EVENT OUTLOOK

Connect with us at upcoming events:

Auto-ISAC Community Call***	Jan. 8, Telecon
CES 2020***	Jan. 7-10, Las Vegas, NV
WSJ Pro Cybersecurity Symposium	Jan. 9-10, San Diego, CA
SANS Cyber Threat Intelligence Summit & Training	Jan. 20-27, Arlington, VA
OWASP AppSec California 2020	Jan. 21-24, Santa Monica, CA
SAE / NHTSA Government/Industry Cyber Security Workshop***	Jan. 21, Washington, DC
SAE Government Industry Meeting***	Jan. 22-24, Washington, DC
Washington Auto Show	Jan. 24-Feb.2, Washington, DC
SAE Hybrid and Electric Vehicle Technologies Symposium	Jan. 28-30, Pasadena, CA
ATA Executive Committee Meeting (Members Only)	Jan. 29-31, Hollywood, FL

HOW TO GET INVOLVED: MEMBERSHIP

IF YOU ARE AN OEM, SUPPLIER OR COMMERCIAL VEHICLE COMPANY, NOW IS A GREAT TIME TO JOIN AUTO-ISAC!

- *REAL-TIME INTELLIGENCE SHARING*
- *INTELLIGENCE SUMMARIES*
- *REGULAR INTELLIGENCE MEETINGS*
- *CRISIS NOTIFICATIONS*
- *MEMBER CONTACT DIRECTORY*
- *DEVELOPMENT OF BEST PRACTICE GUIDES*
- *EXCHANGES AND WORKSHOPS*
- *TABLETOP EXERCISES*
- *WEBINARS AND PRESENTATIONS*
- *ANNUAL AUTO-ISAC SUMMIT EVENT*

To learn more about Auto-ISAC Membership or Partnership, please contact Kim Engles (kimengles@automotiveisac.com).

STRATEGIC PARTNERSHIP PROGRAMS

Solutions Providers

For-profit companies that sell connected vehicle cybersecurity products & services.

Examples: Hacker ONE, SANS, IOActive

Associations

Industry associations and others who want to support and invest in the Auto-ISAC activities.

Examples: Auto Alliance, Global Auto, ATA

Affiliations

Government, academia, research, non-profit orgs with complementary missions to Auto-ISAC.

Examples: NCI, DHS, NHTSA

Community

Companies interested in engaging the automotive ecosystem and supporting - educating the community.

Examples: Summit sponsorship – key events

INNOVATOR

Paid Partnership

- Annual investment and agreement
- Specific commitment to engage with ISAC
- In-kind contributions allowed

NAVIGATOR

Support Partnership

- Provides guidance and support
- Annual definition of activity commitments and expected outcomes
- Provides guidance on key topics / activities

COLLABORATOR

Coordination Partnership

- “See something, say something”
- May not require a formal agreement
- Information exchanges- coordination activities

BENEFACTOR

Sponsorship Partnership

- Participate in monthly community calls
- Sponsor Summit
- Network with Auto Community
- Webinar / Events

AUTO-ISAC BENEFITS

- Focused Intelligence Information/Briefings
- Cybersecurity intelligence sharing
- Vulnerability resolution
- Member to Member Sharing
- Distribute Information Gathering Costs across the Sector
- Non-attribution and Anonymity of Submissions
- Information source for the entire organization
- Risk mitigation for automotive industry
- Comparative advantage in risk mitigation
- Security and Resiliency



Securing Across the Auto Industry

OUR CONTACT INFO

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Executive Director



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Josh Poster
Program Operations
Manager



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