

From Classroom to Cleanroom: Building the Talent Pipeline

Andra Bornea

- Master's Student at TUCN
- ECSA Student Ambassador
- Future Infineon employee



Nov. 21, 2025

ECS Summer School

- Developed in collaboration with AENEAS, EPoSS, and Inside who first piloted the school in 2023.
 - 2024 edition was held on 18 – 23 August in Bertinoro, Italy.
 - 2025 edition hosted by BME on 24-29 August in Budapest, Hungary
- Goals:
 - Inspire and attract new talents in the European ECS community
 - Introduce to students the possibilities offered by microelectronics devices and foreseen future applications
- Talks delivered by representatives from *leading universities, research institutes and companies* + career testimonies
- Free lodging & food + reimbursed travel costs for all selected students



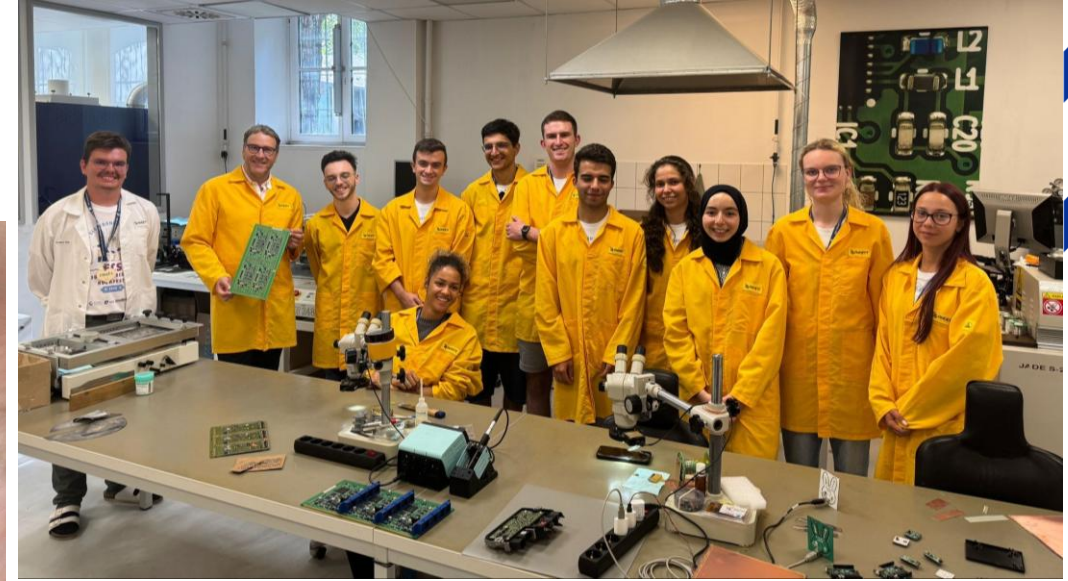
ECS Summer School 2024

- Lectures; Demonstrations; Interactive activities
- 4 main topics:
 - Semiconductor technology
 - Integrated Circuits Design
 - Digital Systems and Embedded Intelligence
 - Integration



ECS Summer School 2025

- Lectures; Hands-on sessions; Lab visits
- 4 main topics:
 - Sensors interfaces
 - Power devices
 - Radio-frequency technologies
 - Digital applications



The Student Ambassador Program: Bridging Students and the Semiconductor Industry



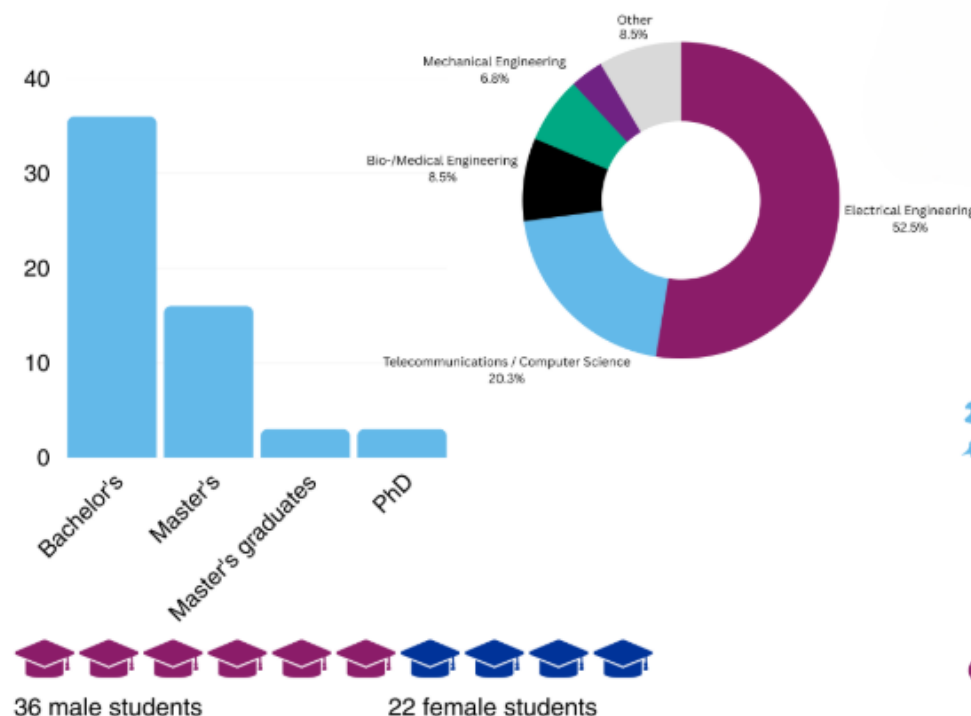
Nov. 21, 2025

ECSA Student Ambassador Program

- vibrant network of motivated students who share a common goal:

to make sure Europe stays at the forefront of the fast-evolving semiconductor world.

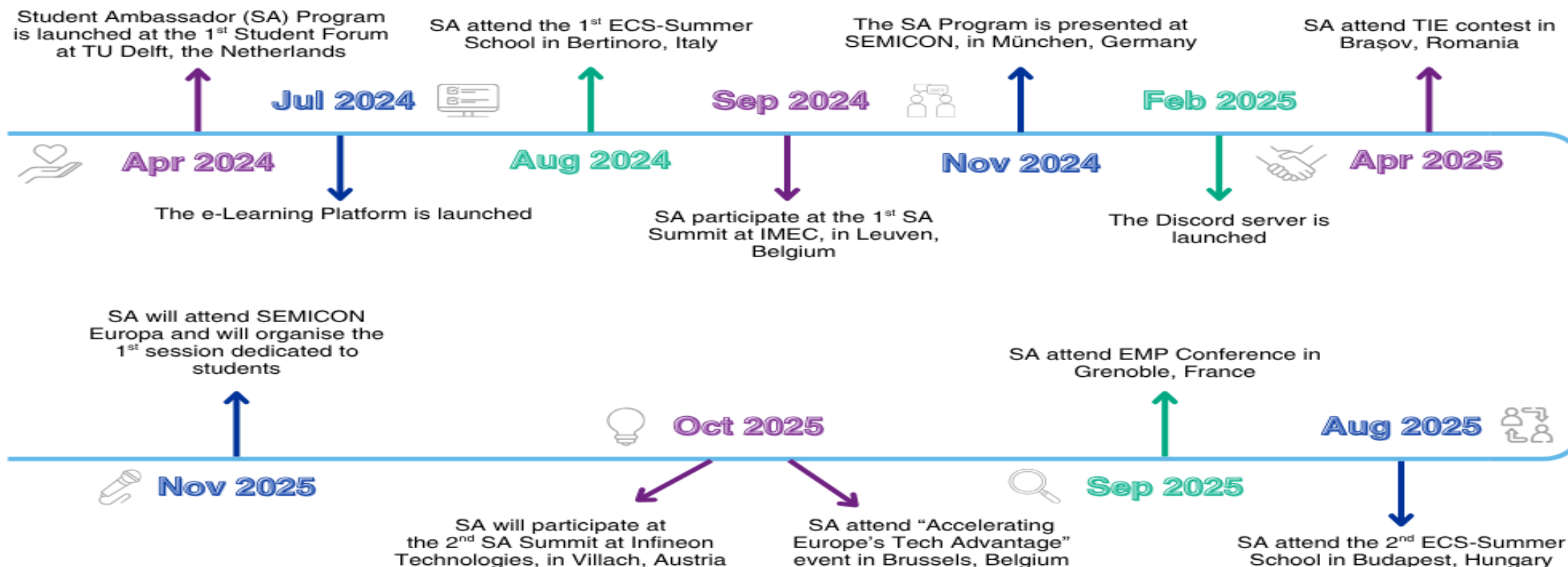
58 Student Ambassadors



Snapshot of our Ambassador community



Program Timeline



ECSA Student Ambassadors

What Does Being an Ambassador Entail? 🌟

As an ECSA Student Ambassador, you can choose how to get involved — from creative outreach to hands-on event support. Here's a glimpse of what you can do:

- ✨ **Test & review** ECSA content such as the e-Learning platform and online courses — your feedback shapes what future students will learn.
- 🔊 **Promote** ECSA events and project results on social media or on campus, spreading awareness within your community.
- 🌍 **Join & support** ECSA events where feasible, helping host sessions at your university or representing us in Europe-wide activities.
- 🎤 **Take the stage** as a speaker or moderator at our events, sharing your voice and ideas.
- 🏡 **Contribute to our Summer School** by helping with organization, communication, or mentorship.

ECSA promotion on Campus & Beyond

-  **Be the voice of ECSA at your university**
 - Introduce your classmates and professors to the SA Program and our mission to strengthen Europe's semiconductor talent.
-  **Promote ECSA online**
 - Share posts or create your own on LinkedIn, Instagram, or other platforms.
-  **Spread the word at events**
 - Talk about ECSA during career fairs, student association meetings, or local tech events.
-  **Capture and share moments!**



Platform promotion on campus

Help us reach more future engineers! 🚀

The ECSA **e-Learning platform** is growing fast — and your voice on campus can help more students discover it.

- 📢 **Promote it on campus:** spread the word about ECSA's free online courses.
- 🗣️ **Use our flyer:** print it for bulletin boards or share it in class group chats.
- 📷 **Show your impact:** send us a photo or screenshot when you share it!

Let's make ECSA visible on every European campus! 🙌



Upcoming courses: Snapshot

INTRODUCTORY TECHNICAL COURSES



E.g.,
nanotechnologies,
cybersecurity,
MEMS

SPECIALIZED TRAINING FROM INDUSTRY



 Infineon

E.g., Process
control monitoring
measurement in
wafer
manufacturing,
Basics of GaN
power devices

SPECIALIZED TRAINING FROM ACADEMIA



E.g., design
circuit
challenge,
bioPCBs

SPECIALIZED TRAINING FROM VET



E.g., Electronics
– analog
devices, Develop
a Business Plan

Platform promotion on campus

Scan & Start Learning! 📱

Access ECSA's e-Learning platform with free courses for future engineers.



Join & Support ECSA events

-  **ECS Summer School**
 - SA joined the [2024 edition](#) in Bertinoro, Italy and the [2025 edition](#) in Budapest, Hungary.
-  **External Events**
 - Join events where ECSA is invited, representing students across Europe.
 - SA attended [TIE 2025](#) in Braşov, Romania.
-  **ECSA-Organized Events**
 - SA attended [“Accelerating Europe’s Tech Advantage”](#) (Brussels, October 2025).
 - 7 SA will host the first Student Session at [SEMICON Europa](#) (Munich, November 2025).

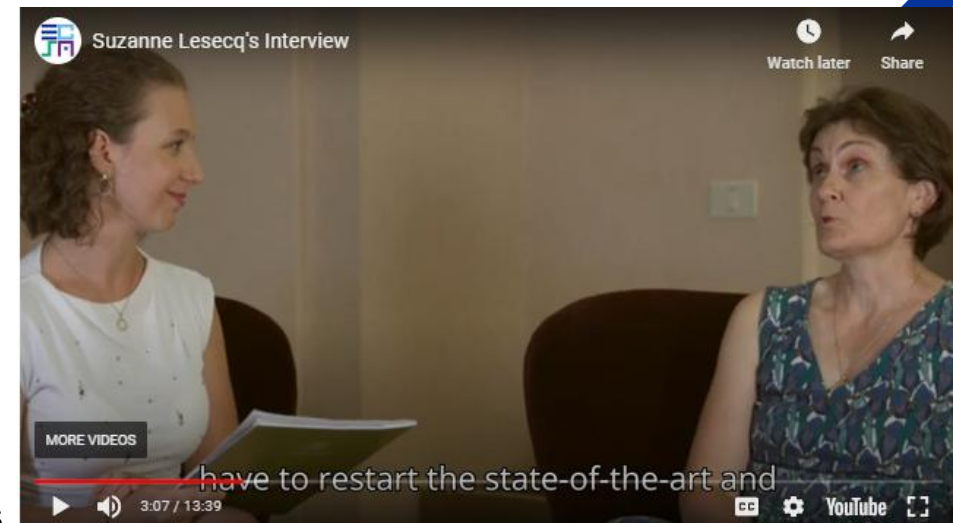


Take the stage

Take the stage and make your voice heard!

As an Ambassador, you can share your ideas, connect with experts, and inspire other students through public speaking and interviews.

-  **Be a speaker or moderator**
 - Share your perspective as a student voice in Europe's microelectronics community.
-  **Conduct interviews with experts**
 - Learn directly from professionals in academia and industry.
 - Your interviews will be featured on ECSA's website and social media.
 - We'll connect you with experts aligned with your interests and goals.
 - You'll receive a short interview guide to help you prepare and make the most of each session.



Explore past interviews

- [Andra's](#) with Suzanne Lesecq (CEA-LETI)
- [Vasil's](#) with Patrick Cogez (AENEAS)
- [Dean's](#) with Dominik Zupan (TU Graz)
- [Rakshith's](#) with Nikhil Palekar (NXP Semiconductors)

ECSA Student Ambassadors

What Do We Offer to Our Ambassadors? 🌟

Being an ECSA Student Ambassador comes with exclusive opportunities to *grow, connect, and make your mark* across Europe. Here's what you can look forward to:

- 🎫 **Free access** to some of the biggest industry events, like *SEMICON Europa*.
- 💡 **Support from ECSA** to develop and bring your own ideas to life.
- 🏭 **Exclusive tours and meet & greets** with industry leaders and innovators.
- 🌐 **Networking opportunities** with students and professionals from all over Europe.
- 🧭 **Mentorship experiences**, from camp counselor roles to peer-to-peer guidance.
- ✈️ **Represent ECSA internationally**, sharing your voice at global events and conferences

ECSCA Support in Developing Your Ideas

ECSCA is here to help turn your ideas into reality — whether it's a new event, a student project, or an initiative to connect peers across Europe.

-  **The Student Ambassador Program itself started as a student idea!**
 - The concept came from Louka, our first Ambassadors, who envisioned a network of students shaping the future of Europe's microelectronics community.
-  **Other examples of student-led activities:**
 - Interviewing experts from industry and academia
 - Establishing a student club
 - Piloting an event, podcast, or newsletter



ECSA Student Forum

By students, for students! 

The ECSA e-Learning platform is growing fast — and your voice on campus can help more students discover it.



1) 1st Student Ambassador Forum (2024)

- Held at **TU Delft** in The Netherlands, brought together over *120 students, professors, and industry experts* from across Europe; Students presented *research*, discussed *education pathways*, and explored *how to attract more young talent* into the semiconductor industry.
- Ambassadors launched the Student Ambassador Program at the event.

2) 2nd Student Ambassador Forum (Q1 2026)

- Will be hosted by **UPM**, Spain, and it will feature new student-led sessions, workshops, and interactive discussions.
- Interested in hosting a future edition at your university? **Reach out to us!**

Empowering students to lead Europe's microelectronics future! 

Exclusive Tours & Meet-and-Greets

Get a behind-the-scenes look at Europe's leading microelectronics facilities!

As an Ambassador, you'll have the chance to visit world-class research institutes and companies — discovering how cutting-edge technologies are developed and meeting the experts driving innovation.

1) 1st Student Ambassador Summit (2024)

- Held at **IMEC** in Leuven, Belgium, where SA toured the cleanroom and research facilities, joined discussions on careers and connected with leading engineers and researchers.



2) 2nd Student Ambassador Summit (2025)

- Hosted by **Infineon Technologies** in Villach, Austria. Ambassadors took part in site tours, lab visits, and interviews with Infineon experts — gaining valuable insights into semiconductor manufacturing and career opportunities in the field.



International Exposure

-  **Experience global events firsthand**
 - SA receive free access to flagship conferences like SEMICON Europa — one of the biggest gatherings in the microelectronics world.
-  **Represent ECSA internationally**
 - SA are given the chance to attend and speak at key industry and academic events across Europe.
 - SA received ECSA support to attend the [EMPC](#) in Grenoble, France, discovering new technologies and connecting with professionals.



Ways We Connect & Collaborate 🤝

The ECSA Student Ambassador community stays connected through several channels — so you can engage in the way that works best for you:

- 💻 **Monthly Teams Calls** – Stay up to date with ECSA projects, events, and new opportunities. Participation is flexible, but active involvement is valued when selecting Ambassadors for events.
- 💬 **Discord Server** – A collaborative space to exchange ideas, share materials, and give feedback in an open, friendly environment.
- 📱 **WhatsApp Group** – For quick updates, reminders, and casual chat with other Ambassadors.
- 📅 **Flexible involvement** – You decide how much time to dedicate based on your studies and interests.
- 💡 **Your voice matters** – Share suggestions, start new initiatives, and help shape what the Ambassador community becomes next.

🌟 *You don't have to be everywhere — just stay connected where it suits you best!*

How to Join

Becoming an ECSA Student Ambassador is simple — and open to all students passionate about microelectronics and Europe's tech future!

- 1)  **Fill out the application form** — tell us a bit about yourself, your studies, and what motivates you to join.
- 2)  **We'll get in touch** to discuss your interests and how you'd like to contribute.
- 3)  **Start your journey!** You'll be added to our community and can choose how involved you want to be — from sharing ideas online to representing ECSA at events.

 **Apply now:**

