IEEE SOLID-STATE CIRCUITS SOCIETY™
IC Innovation

SSCS Membership Delivers:

- Networking with Peers
- Educational Development
- Leadership Opportunities
- Recognition of Achievement
- International Conferences
- Publications
- Student Programs

IEEE Advancing Technology for Humanity

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- **Club SSCS**

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- **Club SSCS**
- **Dream BiG**
-

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- **Club SSCS**
- **Dream BiG**
- **Commitment and Reward**

IEEE Advancing Technology for Humanity

University of Niš
Faculty of Electronic Engineering

University of Nis ED/SSC Student Branch Chapter

Sandra Veljković, Danijel Danković, Vojkan Davidović,
Miloš Marjanović, Nikola Mitrović

University of Niš, Faculty of Electronic Engineering – FEE UNI

Who we are

- IEEE
  - R1-R7, R9, R10
  - R8
    - Serbia and Montenegro (One of 70 sections)
      - Chapters
        - Computer Science
        - Computational Intelligence
        - **Electron Devices/ Solid-State Circuits**
          - **University of Nis ED/SSC Student Branch Chapter**
        - Microwave Theory and Techniques Society
        - IEEE Women in Engineering - Affinity Group
        - …
      - Student Branch
        - Belgrade
        - **Niš**
        - Novi Sad
        - Podgorica

Danijel Danković
Joint Chapter Chair
Electron Devices/ Solid-State Circuits

Vojkan Davidović
Treasurer
Student Branch Niš/Electron Devices/ Solid-State Circuits

Miloš Marjanović
Joint Chapter Chair/Secretary
Student Branch Niš/Electron Devices/ Solid-State Circuits

Nikola Mitrović
Secretary
University of Nis ED/SSC Student Branch Chapter

Sandra Veljković
Joint Chapter Chair
University of Nis ED/SSC Student Branch Chapter

Realized at FEE UNI

Powered by IEEE TRY Engineering

STEM Projects

STEM visits IEEESTEC conference

- 10 online/10 live workshops
- 6 schools (3 different cities)
- 100-120 high school students
- 15 papers for IEEESTEC Conference

Let STEM visit again IEEESTEC

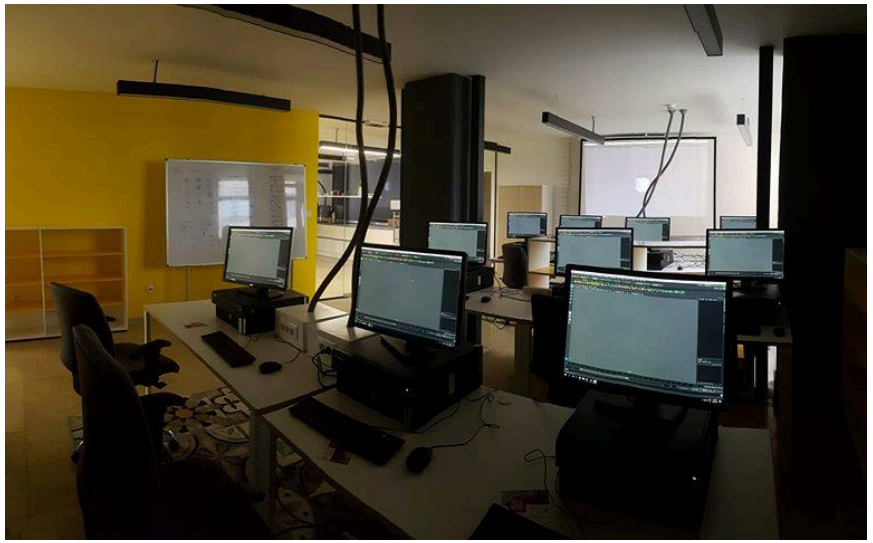
- Coming soon!!!

Program Activity
Selection of schools and students
Entrance survey of students
Basic course - Practical application of electronic devices
Post basic course survey
Advanced course – Arduino IoT projects
Post Arduino course survey
First objective
Workshop - From idea to realization
Workshop - How to write a paper for a conference
Post workshops survey
Second objective
Preparation of papers for the IEEESTEC conference
Making 3D prints for realized prototypes
IEEESTEC conference and Competition for students
Third objective
Final surveys and report

Cooperation with…

- Faculty of Electronic Engineering, University of Niš
- Ministry of Education, Science and Technological Development
- Serbian Academy of Sciences and Arts
- Electrical Engineering STudents' European assoCiation (EESTEC) Local Committee Niš
- Centers for the Promotion of Science
- Institute for the Advancement of Education and Upbringing
- Regional Centers for Professional Development of Employees in Education
- Science Clubs Leskovac, Niš…
- High schools/grammars schools from whole Serbia

Place where ideas are born – Student Creative Center of FEE UNI



Just in the past two months…

Galaksija Cup

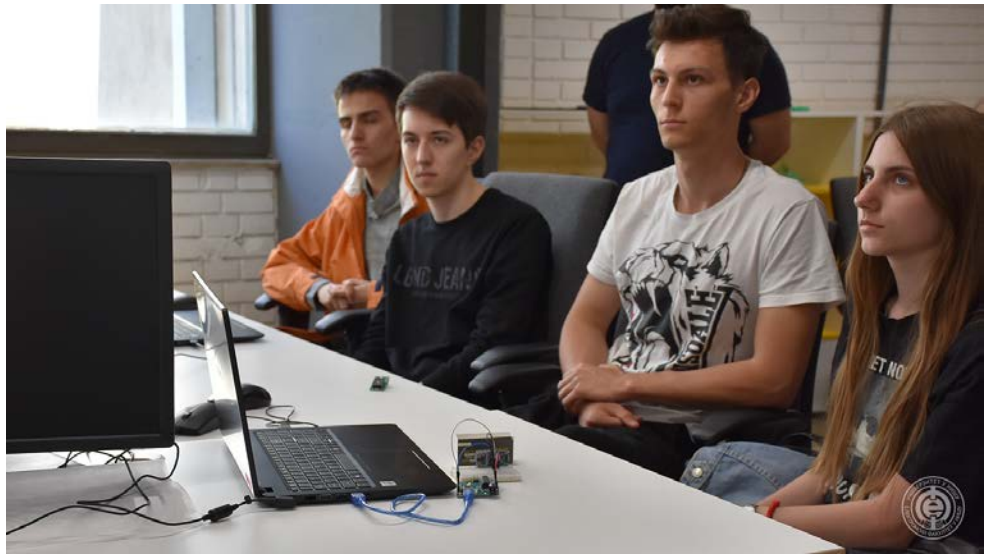
Competition based on Arduino platform

Workshops with professors and students from ETŠ "Mija Stanimirović"

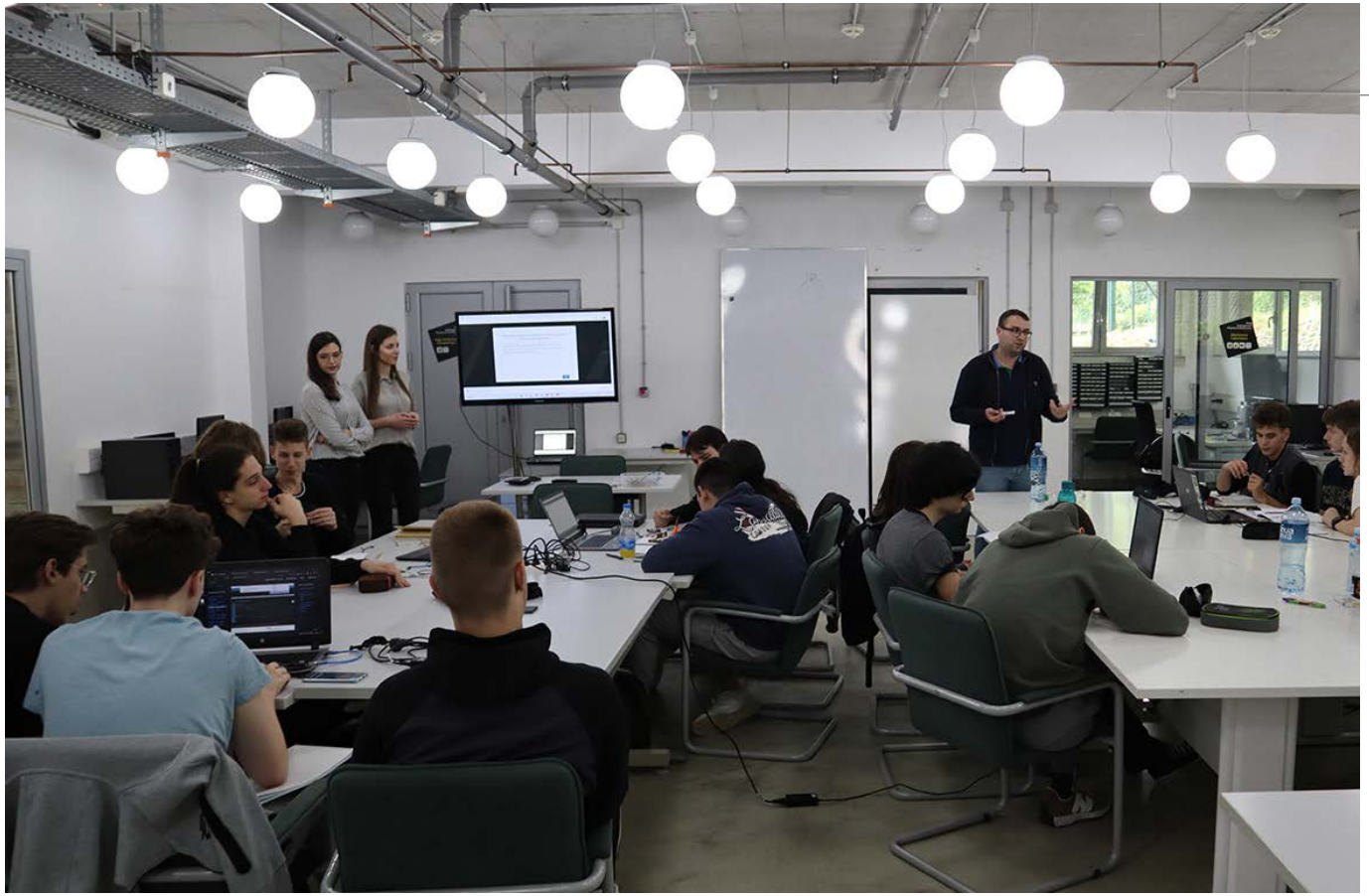
Equipment obtained by IEEE EDS-ETC Program

Workshops with students from the grammar school "Bora Stanković"

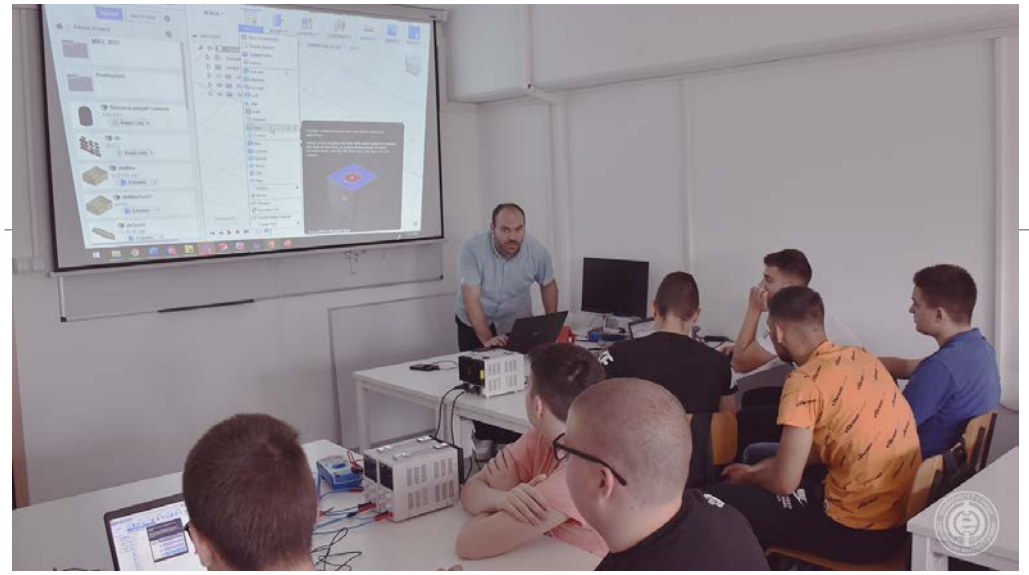
Workshops with students from the grammar school "Svetozar Markovic"



Workshop and lectures for seminar participants in Petnica Science Center



Work continued with high school students from Nis and Leskovac



The final round of the quiz for high school students

IEEESTEC-International Students' Projects Conference

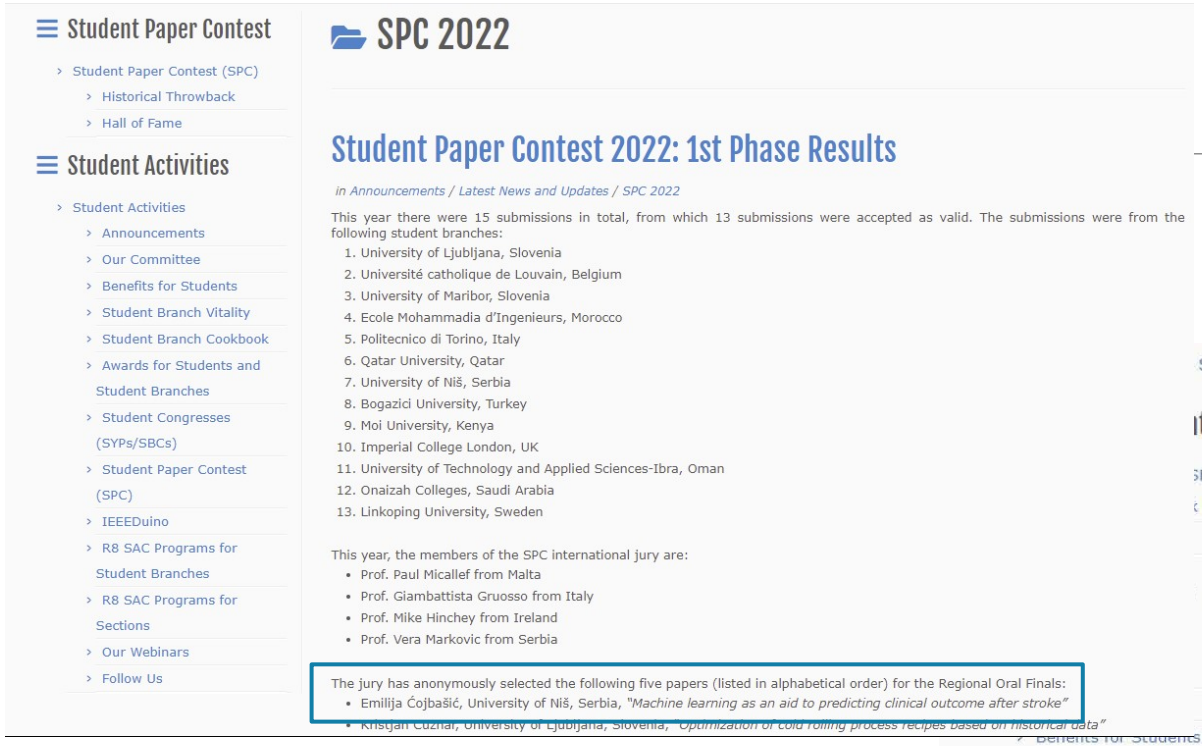
A story that has been going on for 15 years…

- 80-100 papers
- 30 institutions

Organizers


IEEESTEC
10th Students Projects Conference
23.11.2017.
University of Niš
Faculty of Electronic Engineering
Serbia
eeStec
IEEE
Solid-State

Our success on SPC…



Student Paper Contest

- Student Paper Contest (SPC)
  - Historical Throwback
  - Hall of Fame

Student Activities

- Student Activities
  - Announcements
  - Our Committee
  - Benefits for Students
  - Student Branch Vitality
  - Student Branch Cookbook
  - Awards for Students and Student Branches
  - Student Congresses (SYPs/SBCs)
  - Student Paper Contest (SPC)
  - IEEEDuino
  - R8 SAC Programs for Student Branches
  - R8 SAC Programs for Sections
  - Our Webinars
  - Follow Us

SPC 2022

Student Paper Contest 2022: 1st Phase Results

in Announcements / Latest News and Updates / SPC 2022

This year there were 15 submissions in total, from which 13 submissions were accepted as valid. The submissions were from the following student branches:

1. University of Ljubljana, Slovenia
2. Université catholique de Louvain, Belgium
3. University of Maribor, Slovenia
4. Ecole Mohammadia d'Ingenieurs, Morocco
5. Politecnico di Torino, Italy
6. Qatar University, Qatar
7. University of Niš, Serbia
8. Bogazici University, Turkey
9. Moi University, Kenya
10. Imperial College London, UK
11. University of Technology and Applied Sciences-Ibra, Oman
12. Onaizah Colleges, Saudi Arabia
13. Linkoping University, Sweden

This year, the members of the SPC international jury are:

- Prof. Paul Micallef from Malta
- Prof. Giambattista Gruosso from Italy
- Prof. Mike Hinchey from Ireland
- Prof. Vera Markovic from Serbia

The jury has anonymously selected the following five papers (listed in alphabetical order) for the Regional Oral Finals:

- Emilija Ćojbašić, University of Niš, Serbia, *"Machine learning as an aid to predicting clinical outcome after stroke"*
- Kristjan Cuznar, University of Ljubljana, Slovenia, *"Optimization of cold rolling process recipes based on historical data"*

SPC 2021

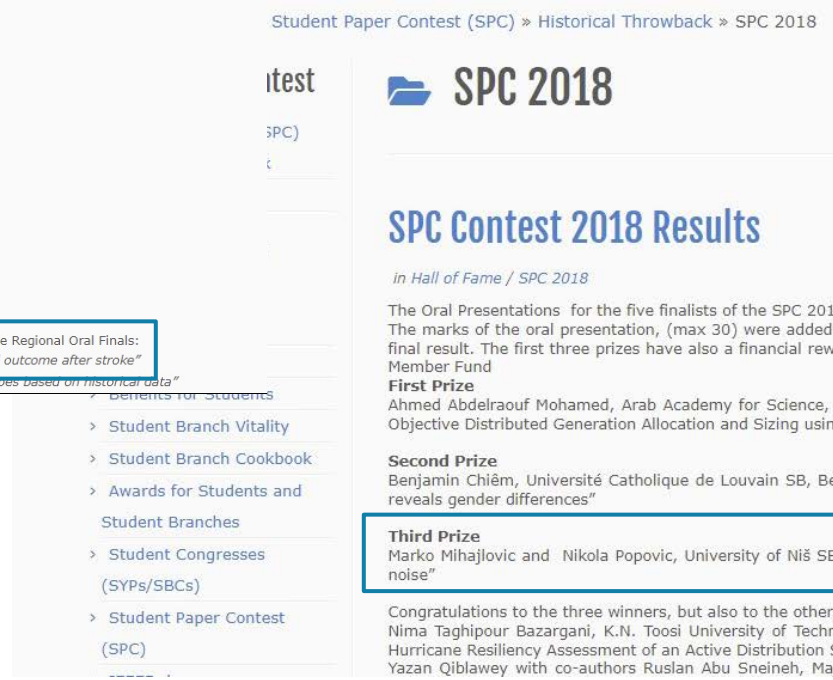
Student Paper Contest 2021: Final Results

Final Results

1ST PRIZE and award of $800

2ND PRIZE and award of $500

3RD PRIZE and award of $200



Student Paper Contest (SPC) » Historical Throwback » SPC 2018

- Student Branch Vitality
- Student Branch Cookbook
- Awards for Students and Student Branches
- Student Congresses (SYPs/SBCs)
- Student Paper Contest (SPC)

SPC 2018

SPC Contest 2018 Results

in Hall of Fame / SPC 2018

The Oral Presentations for the five finalists of the SPC 2018
The marks of the oral presentation, (max 30) were added t
final result. The first three prizes have also a financial rewa
Member Fund

First Prize
Ahmed Abdelraouf Mohamed, Arab Academy for Science, T
Objective Distributed Generation Allocation and Sizing using

Second Prize
Benjamin Chiêm, Université Catholique de Louvain SB, Belgium, with the paper, "Supervised classification of structural brain networks reveals gender differences"

Third Prize
Marko Mihajlovic and Nikola Popovic, University of Niš SB, Serbia, with the paper, "Fooling a neural network with common adversarial noise"

Congratulations to the three winners, but also to the other two finalists
Nima Taghipour Bazargani, K.N. Toosi University of Technology, Tehran SB, Iran, with the paper, " A Novel Approach for Probabilistic Hurricane Resiliency Assessment of an Active Distribution System Using Point Estimate Method"
Yazan Qiblawey with co-authors Ruslan Abu Sneineh, Majd Ahmed Abduljabbar and Yousef Jamal Orabi, Qatar University, Doha SB,

4th and 5th Place

Chapter of the Year Award

2018 Regions 1-7 - ED/CAS North Jersey Chapter

Region 8 - ED/SSC University of Nis Student Branch Chapter

Region 9 - ED/RA Tunja Chapter

Region 10 - ED Malaysia Chapter

Thank You for Your Attention!

University of Niš
Faculty of Electronic Engineering

ELECTRON DEVICES SOCIETY
SSCS
IEEE
eeStec
LC Niš

SSCS Chapters Webinar: Inspiring and Developing Tomorrow's Circuit Stars

Tunisia Chapter Summary

IEEE
Advancing Technology for Humanity

SSCS Tunisia Chapter

Officers - VOLUNTEERS

IEEE SOLID-STATE CIRCUITS SOCIETY™
SSCS Tunisia Chapter
IC Innovation

- Chapter **Chair**: *Brahim Mezghani*
  - Professor at the Dept of EE in the Nat Eng School of Sfax (ENIS), Tunisia
  - PhD'2008 and HDR'2014 in µElec, from the ENIS
  - MSc'1990 in µElec and BSc'1988 in EE, from the UMN, Minneapolis, USA
- Chapter **Vice-Chair**: *Amel Neifar* (Res Cent µelect & Nanotech, Sousse)
- Chapter **Secretary**: *Hatem Trabelsi* (Prof, Dept. of EE, ENIS)
- Chapter **Treasurer**: *Chokri Rekik* (Prof, Dept. of EE, ENIS)
- Representative, **Junior Ambassador**: *Sinda Aloui* (AP, EE, ENIS)

IEEE

Junior events

Why?

IEEE SOLID-STATE CIRCUITS SOCIETY™
Tunisia Chapter
IC Innovation

- To stimulate the **interest** of very young and pre-university students
- An opportunity for very young students to discover ICs
- Leave an unforgettable impression as if we plant in them a **seed of interest** in microelectronics

IEEE

Junior events

EN'JUNIOR (1st organized junior event)

IEEE SOLID-STATE CIRCUITS SOCIETY™
Tunisia Chapter
IC Innovation

EN'JUNIOR 1.0 mainly consisted of organizing a visit and a guided tour to discover various on-going student activities in the ENIS.

The Chapter Junior Ambassador, Sinda Aloui, invited 40 students from two primary schools to participate in the 1st edition of EN'JUNIOR.

Thank you, my dear CEE students!

IEEE

Welcoming young students when they arrive to the ENIS and rising the Tunisian flag together with the National Anthem

Welcoming and registration of the young students by the students of the Club of Electrical Engineers (CEE) of the ENIS.

IEEE

The young student extremely happy with his first ever registration procedure for his first ever event.

IEEE

Young students, teachers, parents, and EE students are in the auditorium for the opening ceremony of the EN'JUNIOR event.

EE student explaining the visit program. Prof & guests are in the auditorium for the opening ceremony of the EN'JUNIOR event.

Participants are having a short break after the opening ceremony and before proceeding to the guided visit of the ENIS.

EE student explaining details and mode of operation of each part of their project of a homemade robot.

EE student showing various required electronic circuitry which they used in their project of a homemade robot.

2nd year EE student showing and explaining parts of the electronic circuitry they developed for their project of a homemade car.

Medals were also offered to the young students. These have been provided as a gift from our institution's Director Prof. Slim Abdelkafi.

IEEE SOLID-STATE CIRCUITS SOCIETY™
Tunisia Chapter
IC Innovation

Future junior events

2SCS JR

IEEE

Junior events

2SCS JR 1.0

- The name will be used for all future junior events organized by the SSCS Tunisia Chapter
- The organization of the 1st edition of the 2SCS JR is planned on August 30th, as a part of a summer LeadCamp for high schoolers
- Planned activities during the 2SCS JR 1.0 include the study of the generally employed ICs in various electronic boards

During a previous LeadCamp edition, the students are testing one of the homemade smart-cities.

Junior events

2SCS JR 2.0

IEEE SOLID-STATE CIRCUITS SOCIETY™
Tunisia Chapter
IC Innovation

- Organization of the 2nd edition of 2SCS JR event, during next fall
- It is intended for pre-university laureate students
- The first 5 students from the 6th year and 7th (final) year from several high schools in the region will be identified and invited to participate in the unforgettable event 2SCS JR 2.0
- For best possible experience, we plan on forming small groups for parallel guided tours

IEEE

Advice to other Chapters

Steps to organize junior events

IEEE SOLID-STATE CIRCUITS SOCIETY™
SSCS Tunisia Chapter
IC Innovation

- At your own Institution, you should contact the:
  - Director to ask for permission
  - EE Department or the others to use their Labs or infrastructure
  - Student's clubs including the IEEE ones
- At the primary school, or high school, you should contact the:
  - Director to ask for permission
  - Teachers who will help to identify the young student participants
- Discuss and choose a 'good' day for the event organization
- You should prepare what you're planning on showing and giving to students to make it the most memorable visit of their lives

IEEE

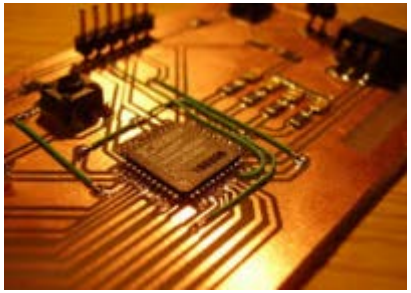
Advice to IEEE Volunteers

Working WITH and FOR juniors

IEEE SOLID-STATE CIRCUITS SOCIETY™
SSCS Tunisia Chapter
IC Innovation

- In addition to IEEE benefits, you add your personal satisfaction
- Volunteering is giving without waiting to get something back
- When dealing with junior folks, you should know that the volunteering work you're doing impacts your own personal life!
- If you have this conviction your words will have a huge impact on the young students
- This would help in getting their attention, increasing the impact of whatever you're planning on doing WITH them and FOR them.

IEEE



Filling the EE/ECE pipeline

Tony Mauro
June 2022

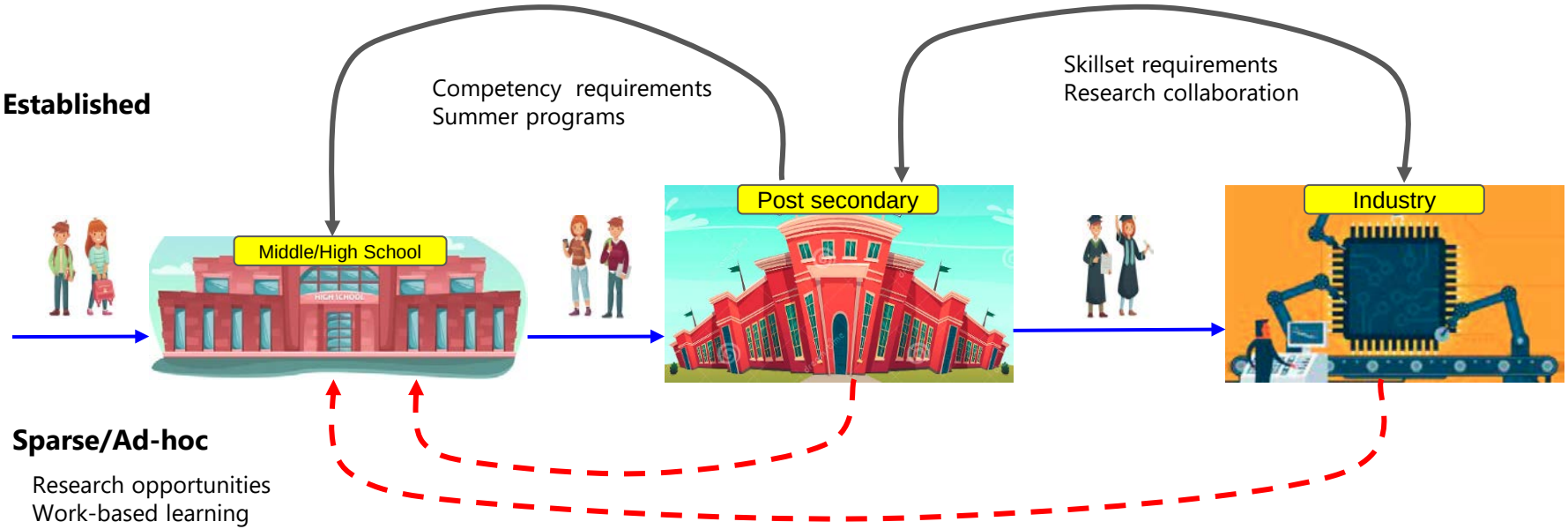
Tony Mauro - Background

- BS/MSEE degrees from Cal Polytechnic University and USC
- Industry experience: 1993-2015 at Qualcomm
  - Digital Hardware designer, DSP Multimedia, Security
  - Registered Patent Agent
  - Founded NexStream Tech Education in 2020
- Teaching experience: 2008 - present at Canyon Crest Academy, San Diego, CA
  - Electronics circuit design, Computer Science
- Interests
  - Work-based learning models for secondary schools
  - Technical: HDL's, Machine Learning, Neuroscience
- Contacts: LinkedIn, NexStream, tony.mauro@sduhsd.net

NexStream™
Technical Education

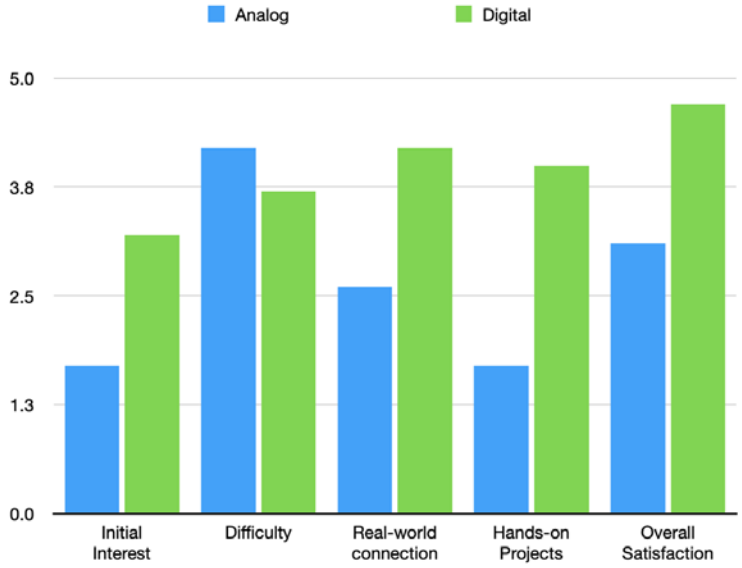
Challenge - how to fill the ‘front-end’ of the EE/ECE pipeline

- Engaging students in a high school electronics courses
- Interactions (from a high-school teacher’s perspective)



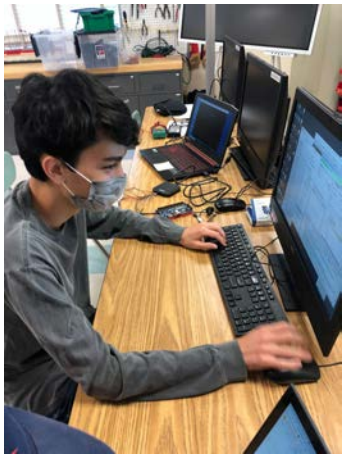
High School Student Engagement
What works and what doesn't

- Electronics Circuit / Digital Electronics Course - end of course 'satisfaction' survey on content
- Analog Circuit Design
  - Basic network analysis
  - Analog filters
  - Rectifiers
  - Amplifiers
- Digital Logic Design
  - Combinational logic control
  - Flip-flops / Counters
  - Sequential logic control (state machines)
  - High-level description language (Verilog)



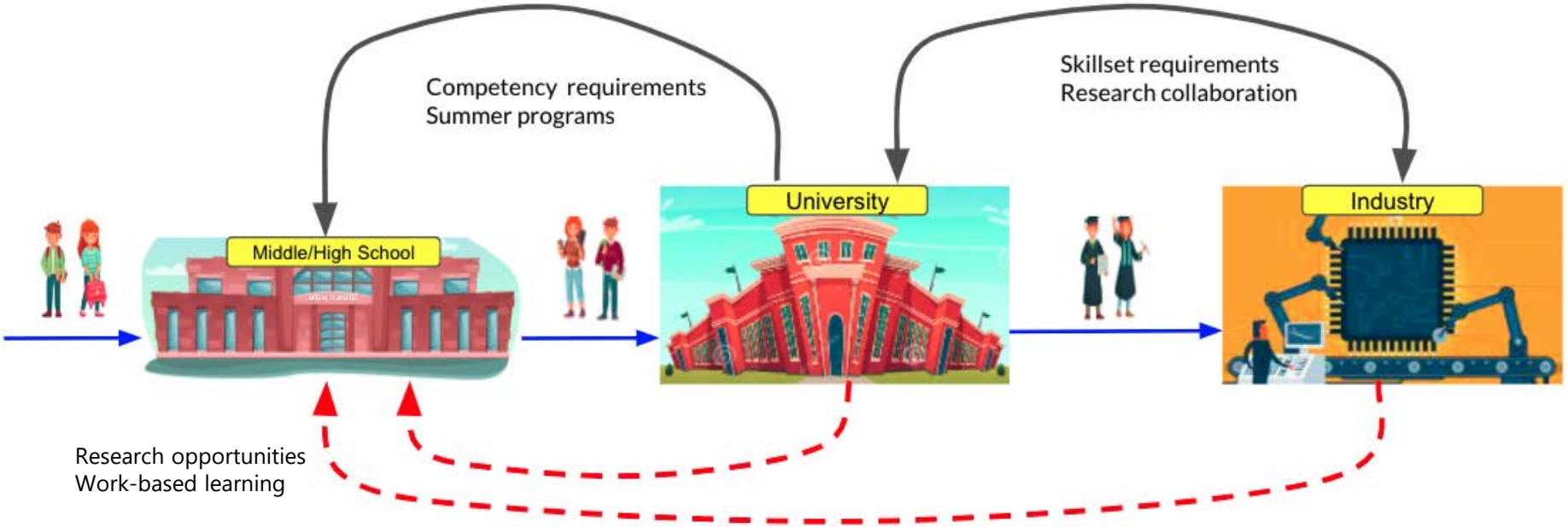
High School Student Engagement
What works and what doesn't

- Provide connections to market - what is used where?
  - Analog: Radio (filters), AC-DC conversion (rectifiers), Signal amplification and logic gates (transistors)
  - Digital: Computers (CPU pipeline, GPU), Vending machines, Garage door controller (state machines)
- Supplement with hands-on projects - definitely a must have
- Digital units preferred. Why?
  - Projects aren't as theoretical
  - Easier to connect to real world applications
  - Design software readily available (Logisim, Vivado)
  - Hardware readily available (SSI, MSI, FPGA)

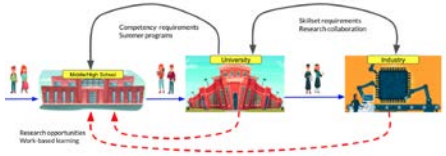


Interactions (Internships and research)

- Provide Work-Based Learning (WBL) experiences
- Have implemented industry collaboration model in high school
- Extensible to post-secondary education

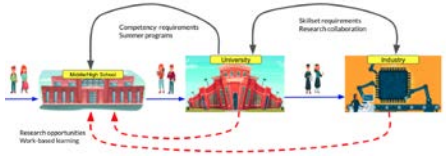


Interaction Wish List



Wish List (what?)	Target		Challenge (why?)	Possible Solutions/Benefits (how?)
	Post secondary	Industry		
Marketing ● AP EE courses ● Certifications ● Teacher training ● Salary surveys, Industry 'rockstars'	☑ ☑ ☑	 ☑	● No demand (?) Students less inclined to enroll in rigorous non-AP course ● Many cert programs available but value is questionable. Not built into course curriculum ● Programs are rigid, teacher are apprehensive	● Propose courses to college board ● Provide extension courses for college credit ● Provide courses built around certification ● Provide resume padding (certifications, awards) ● Build rapport with parents

Interaction Wish List



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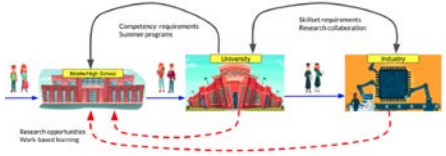
Resources ● Tools/equipment		☑	● Expensive, teacher lack of knowledge	● Donations, training, e.g. space on a wafer

Interaction Wish List



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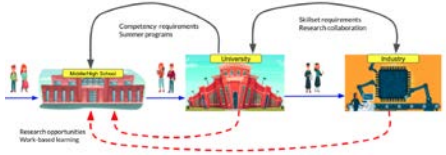
Resources • Tools/equipment		☑	• Expensive, teacher lack of knowledge	• Donations, training, e.g. space on a wafer
Work-based Learning Industry and Research-based internships • Workforce readiness/training • Competitions • Research opportunities	☑ ☑ ☑	☑ ☑ ☑	• Is it possible to create non-degree workforce training programs? • Requires organization/funding (e.g. FIRST) • Mentor responsibilities, engagement • Facility availability	• Offer certifications (e.g. 'preferred skill sets' to join company ABC or attend University XYZ) • Work with industry leaders to define what a program would look like • Offer scholarships, prizes to engage students • Flipped internship/research model (more on this next)



Internships / Research

What works and what doesn't

Traditional Internship Challenges

Industry/Post-secondary Partner Engagement

- Work permits / labor laws
- Facility resource allocation (desks, cubicle, lab space)
- On-site management
- Liability insurance

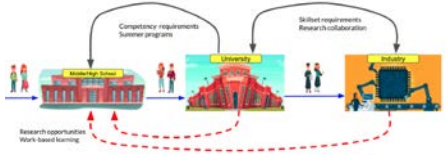
School District

- Student's schedule (time)
- Liability insurance
- Transportation
- Funding (butts in seats)

Internships / Research

What works and what doesn't

Traditional Internship vs. Flipped Model



Internships provide students opportunities for supervised and specific practice for a future career. ***(CALPADS definition)***

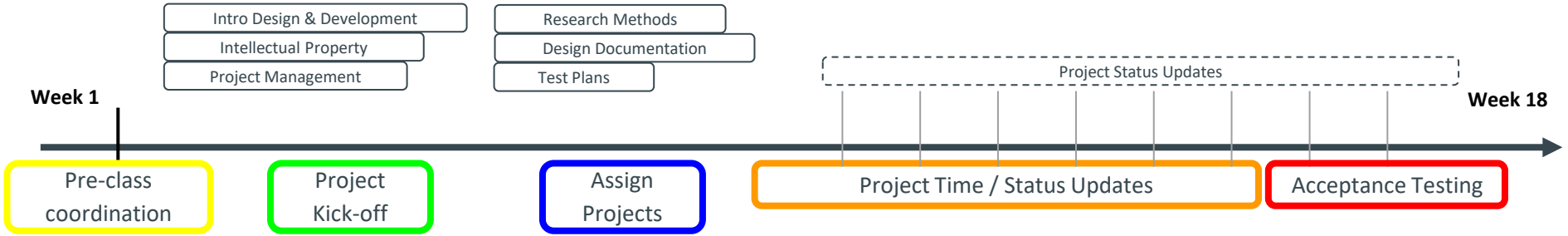
Traditional Internship	Flipped Model
Off campus	On campus
Students apply classroom learning in a workplace setting.	Students apply workplace learning in a classroom setting.
Teacher facilitates, Industry partner manages student work	Industry partner facilitates, Teacher manages student work

CALPADS: California Longitudinal Pupil Achievement Data System

Interactions - Flipped-Internship Model in Practice

- Local industry partner (mentor) coordinates engineering projects, Team (students) execute, Team manager (teacher) tracks day-to-day activities
- Project-based work allocated during class time
- Industry partners provide feedback, guidance and performance rubrics

Interactions - ‘Flipped’ Course Content and Timeline



Identify industry partners

Project Managers (teacher) **coordinate** with industry mentors to choose projects and set expectations/out comes.

Class **project kick-off** meeting with industry liaison to discuss project definitions and schedule.

Assign project teams according to skill sets and interest (optional - industry interviews)

In-class project time

Status updates via conference call or on-campus visits

Project **acceptance testing** performed at industry site (field trip) or on campus.

Interactions - Benefits of Flipped Internships/Research

Student Participants:

- Real-world WBL experiences
- Exposure to design process, not just tech content
- Networking opportunities
- Flexible (COVID-proof)

Industry/Post-secondary Partners:

- Positive community outreach (good PR!)
- Execution of unstaffed projects
- Eliminates oversight, insurance, labor costs
- Pipeline to future workforce/students

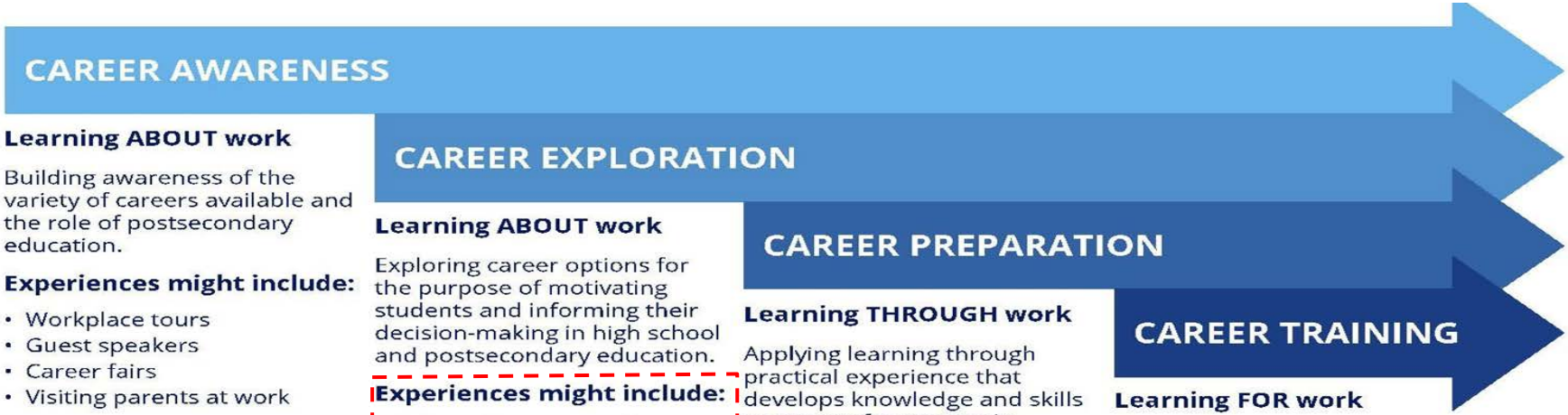
Backup

What is Work-Based Learning?

… a continuum of intentional activities
and experiences designed to expand the boundaries of the classroom and prepare students for future career opportunities. Activities and experiences begin as early as pre-kindergarten and continue through post-secondary education.

WBL Framework citation

What is Work-Based Learning?



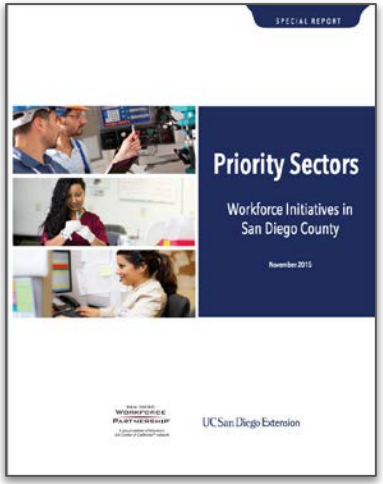
California School DASHBOARD

Work-based Learning Codes will be analyzed for inclusion in the Fall 2022 Dashboard

Why is WBL important

Priority Sector Reports detail workforce gaps and challenges in key industry sectors, and then offer suggestions to address challenges and *ensure a strong future workforce.*

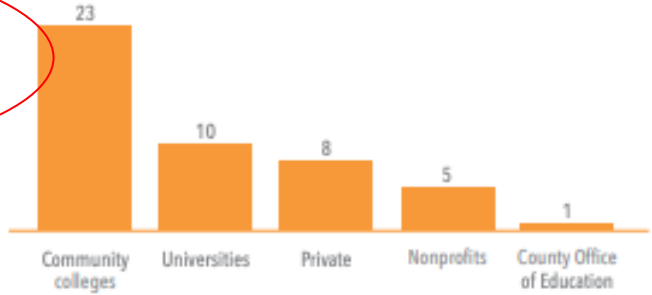
5 Key sectors Profiled in 2015 Report: Advanced Manufacturing, Clean Energy, Health Care, Information and Communication Technologies (ICT), and Life Sciences.



Advanced Manufacturing

- ☑ Change the public perception of traditional manufacturing to Advanced Manufacturing
- ☑ Foster science, technology, engineering and math (STEM) education in the K–12 system
- ☑ Add internship/work experience requirements to training and education programs
- ☑ Increase the number of public-private partnerships to share resources
- ☑ Expand and develop the talent pipeline
- ☐ Align the workforce system with employers' needs
- ☐ Standardize certifications and create articulation agreements
- ☐ Increase employer knowledge of and access to business assistance programs

To date, there are 57 workforce initiatives in San Diego's Advanced Manufacturing sector. 47 of these initiatives are training and education programs. The figure below shows the breakdown of these programs.

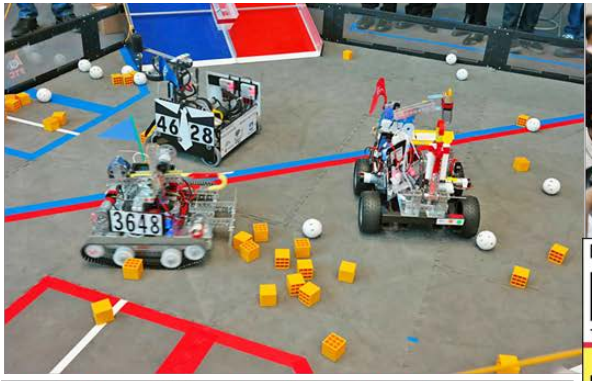


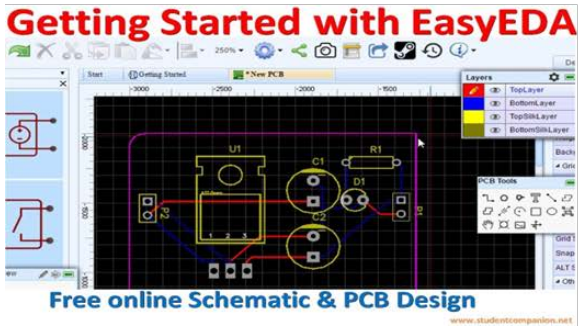
Democratizing IC Design:
The IEEE SSCS PICO Program

Boris Murmann
murmann@stanford.edu
Chair, SSCS TC Open-Source Ecosystem
June 29, 2022

How to Attract IC Design Talent?

- Current generation thrives on collaborative maker culture
- Make IC design more accessible, inclusive, open
- Leverage rapidly growing open-source ecosystem

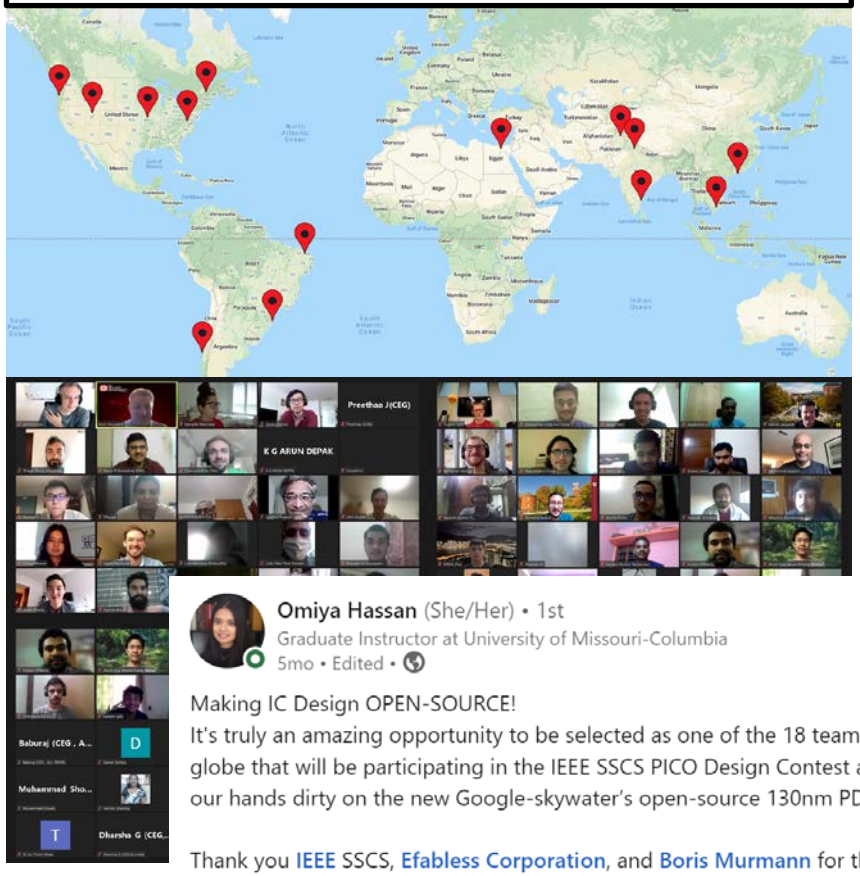




IEEE
Advancing Technology for Humanity

Platform for IC Design Outreach (PICO)

Open-Source Chipathon 2021



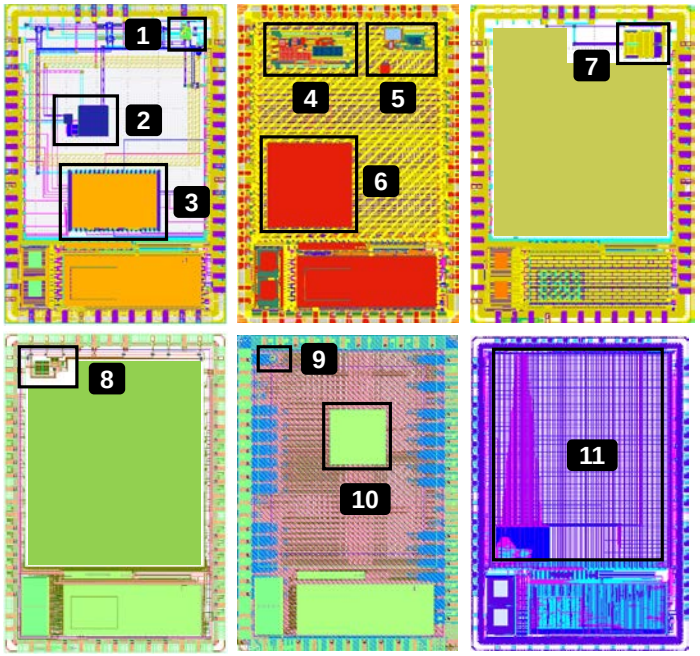
Omiya Hassan (She/Her) • 1st
Graduate Instructor at University of Missouri-Columbia
5mo • Edited •

Making IC Design OPEN-SOURCE!
It's truly an amazing opportunity to be selected as one of the 18 teams around the globe that will be participating in the IEEE SSCS PICO Design Contest and getting our hands dirty on the new Google-skywater's open-source 130nm PDK!

Thank you IEEE SSCS, Efabless Corporation, and Boris Murmann for this initiative! Excited to be working with you all in the upcoming months

- 61 design proposals
  18 selected
  11 taped out
- Weekly meetups (August-November)
- IEEE & SSCS student memberships offered to all participants
- Pakistan team starting a new SSCS Student Branch Chapter

Designs Completed & Taped Out



	Function	Team	Chip URL
1	5G bidirectional amplifier	Pakistan3 (FAST National University)	https://efabless.com/projects/560
2	Wireless power transfer unit	Pakistan2 (FAST National University)	
3	Variable precision fused multiply-add unit	Pakistan1 (FAST National University)	
4	Oscillator-based LVDT readout	India2 (Anna University)	https://efabless.com/projects/474
5	Temperature sensor	India1 (Anna University)	
6	GPS baseband engine	India3 (Anna University)	
7	Ultra-low-power analog front-end for bio signals	Brazil2 (U. Federal de Santa Catarina)	https://efabless.com/projects/476
8	TIA for quantum photonics interface	USA4 (University of Virginia)	https://efabless.com/projects/470
9	Bandgap reference	Egypt (Cairo University)	https://efabless.com/projects/473
10	Neural network for sleep apnea detection	USA2 (University of Missouri)	
11	SONAR processing unit	Chile (University of the Bio-Bio)	https://efabless.com/projects/540

- Tape-out via Efabless chipIgnite program (130nm SkyWater)
- All designs shared on GitHub

SSCS TC Open-Source Ecosystem

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Harald Pretl
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Austria

Priyanka Raina
Stanford
USA

Mehdi Saligane
Univ. Michigan
USA

Mirjana Videnovic-Misic
Silicon Austria Labs
Austria

TC-OSE Charter

- Organize Chipathon
- Engage with broader open-source community
- Engage with industry players/consortia
- Develop publication venues for open source
- Contribute to tools & education infrastructure

- Please talk to us if you want to get engaged!

Ongoing Chipathon

IEEE SOLID-STATE CIRCUITS SOCIETY™
IC Innovation

2022 SSCS "PICO" Open-Source Chipathon

Proposal Deadline: May 1, 2022

The IEEE Solid-State Circuits Society is pleased to announce its second open-source integrated circuit (IC) design contest under the umbrella of its PICO Program (Platform for IC Design Outreach). While this contest is open to any individual or team, we especially encourage the participation of pre-college students, undergraduates, and geographical regions that are underrepresented within the IC design community.

55 submissions, 22 teams selected

IEEE Advancing Technology for Humanity

Links

- PICO program overview
  - https://sscs.ieee.org/about/solid-state-circuits-directions/sscs-pico-program
- TCE-OSE resource page
  - https://sscs-ose.github.io/
- Chipathon volunteer sign-up
  - https://sscs.ieee.org/volunteer-opportunities#SSCD