

IEEE Region 8

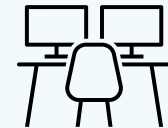


New Student Contests Ad-Hoc



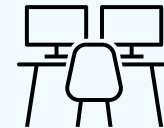
Outline

- Inception and Objectives of the Initiative.
- Review of 2021 – 22 progress and feedback.
- Plan and timeline for expanded 2022 – 23 session.



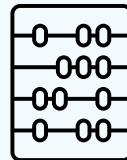
Objectives of the Initiative

- Provide an activity for student members inspiring learning, collaboration, development of new skills and technological innovations.
- Develop valuable experience, enhance job prospects, spread awareness of the importance of engineering skills to student members.
- Provide links with industry and with IEEE technical societies, creating technical communities and job opportunities.
- Enhances IEEE Student membership across Region 8 to ensure sustainability of student communities.



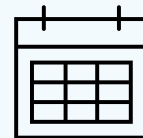
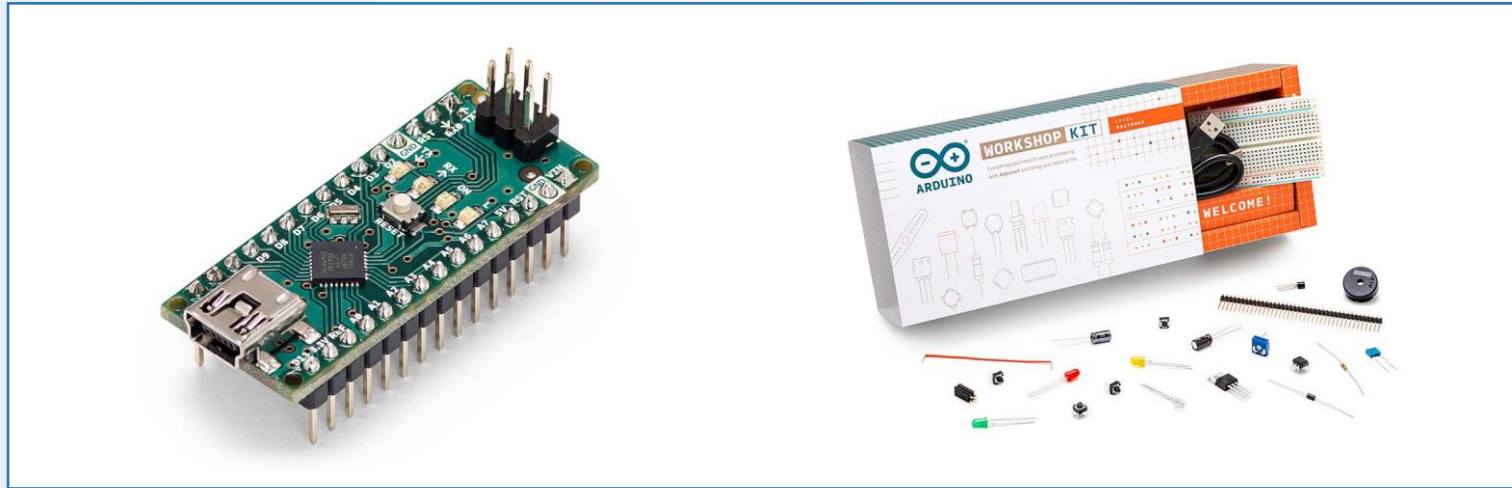
IEEEduino Challenge

- **Hardware design and build competition, using Arduino.**
- Contest is delivered in two phases:
- *The design and ideas phase:*
 - Participants asked to prepare a four-page proposal of their idea.
 - Submissions will be selected to participate in the build phase by judging panel.
- *The build phase:*
 - Selected participants will receive an Arduino Nano and development kit.
 - Students may build their design at home, or may use university laboratories
- Final entries will be judged via a video submission.



IEEEduino Challenge

- **Arduino Nano and Development Kit**
 - Inexpensive, well understood, taught in University, readily available.



IEEEDuino Challenge Brand Identity



IEEEduino Challenge

- **2021 – 22 Session Review**
 - **40** Applications for Stage 1 – Design Phase
 - **15** Teams Selected to proceed to Stage 2 – Build Phase
 - **10** Completed Entries Received
 - **23** New IEEE Student Members Joined to Participate.
 - **105** Ambassador registrations from 27 Region 8 Sections.
 - **133** Judge registrations from 33 Region 8 Sections.
- **2021 – 22 Theme:** Humanitarian Technologies to combat COVID-19



2021 – 22 Session Review



**IEEE Region 8
IEEE Duino Contest
Results 2022**

2
Tech Sight
Misr University for
Science & Technology
Egypt Section

1
BitDuino
Universidad San Pablo CEU
Spain Section

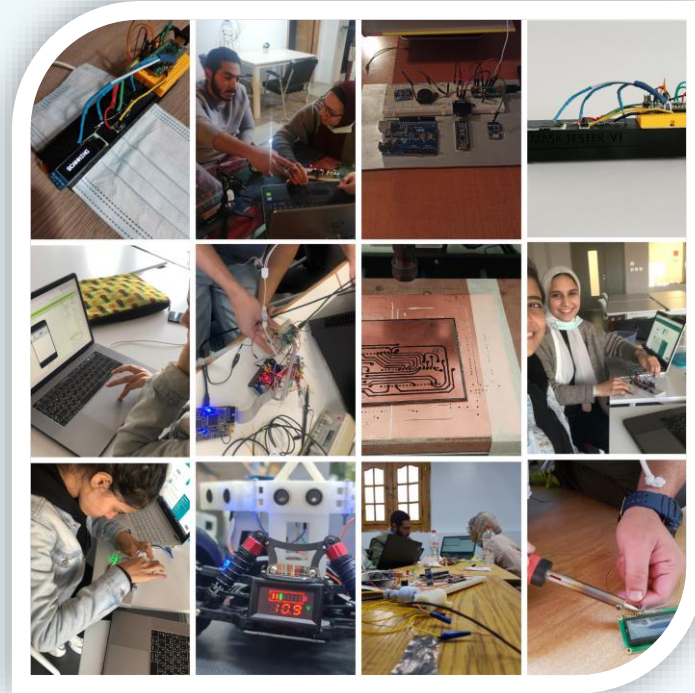
3
Invicta
Petroleum-Gas
University Ploiesti
Romania Section

Honourable Mention:

crowdSOS
Hochschule Hamm-Lippstadt
Germany Section

SystemsGenesis
International Hellenic University – Kavala
Greece Section



IEEEDuino Challenge

- **2021 – 22 Session Review – Improvements**

- Logistics of dispatching IEEEDuino hardware to some sections (customs, charges).

*Sincere thanks to **Adam Jastrzebski** for supporting this initiative.*

- Hosting the contest in a select number of sections.
- Alignment with disrupted academic year (Covid 19).
- Timeline and approval at each step (pilot programme).



IEEEduino Challenge

- **2022 – 23 Session Proposal**
 - Revised method of hardware delivery.
 - Open to all sections with section chair support.
 - **Theme:** Energy Saving and Efficiency Improvement.



IEEEduino Challenge

- **Costs**
 - Hardware cost per unit: €50 + €10 Tax
 - Shipping cost (within Europe example): €5 - €15
 - Certificate Printing €50
 - Publicity (T-Shirts / Cups / Pens) €200
 - Prize Funds €600
- Total contest costs **€1500**



IEEEduino Challenge – Timeline 2022 - 23

- **November 2022**
 - Preparation and logistics, advertising, website and social media refresh.
 - Recruitment and training of IEEEduino ambassadors and section representatives.
- **December 2022**
 - Finalisation of involvement of section chairs for hardware delivery.
 - Recruitment and training of IEEEduino judges.
- **February 2023**
 - Design and ideas phase submissions to open.
- **March 2023**
 - Judging of design and ideas phase.
- **April 2023**
 - Announcement of 'Phase 1' selected teams, Issuing of Arduino Nano hardware via section representatives.
 - Build Phase Beginning - April 2023.
- **May 2023**
 - Submission of completed project designs and 'Phase 2' judging.
- **July 2023**
 - Finalisation of project scores and winner announcement.



Thank You

