



Transnational Meeting no. 5 Sisak (Croatia)

WIND TUNNEL, TESTS AND DISSEMINATION ACTIVITIES

Prepared by ŠOLSKI CENTER KRŠKO-SEVNICA

Presented by: Franci Uduč, Anže Petretič, Klemen Zupančič



Wind tunnel

Wind tunnel is part of equipment in physical laboratory in SC Krško-Sevnica. In Drone team project we planned exceptional costs to improve it.



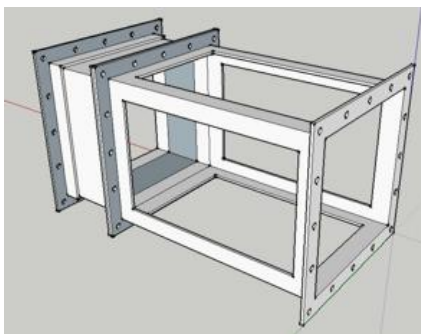


Mr. Jože Pernar – physical teacher



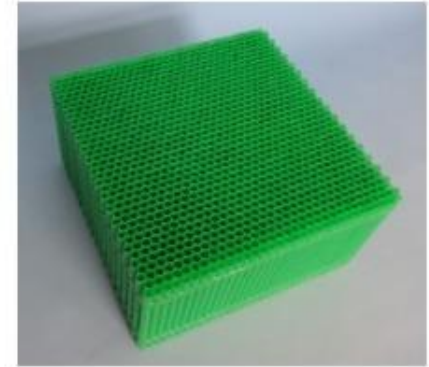
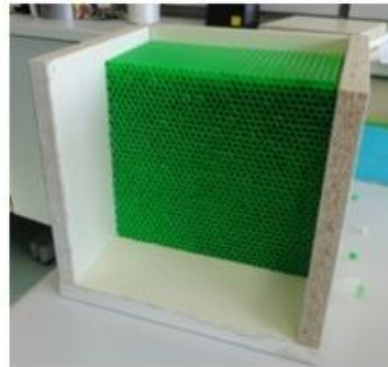
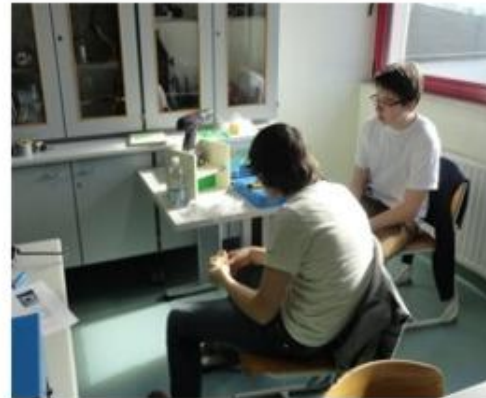


Making the wind tunnel parts - chamber



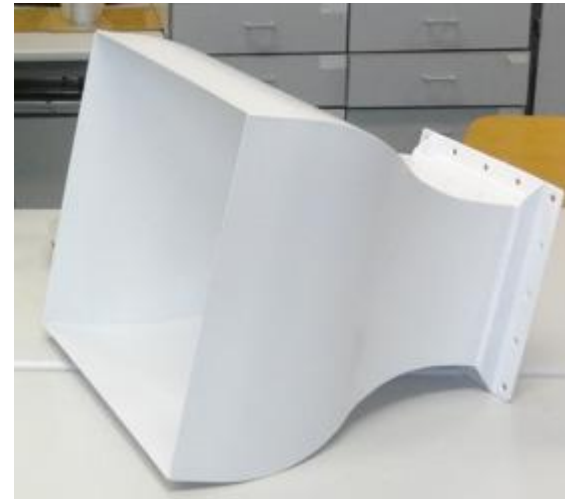
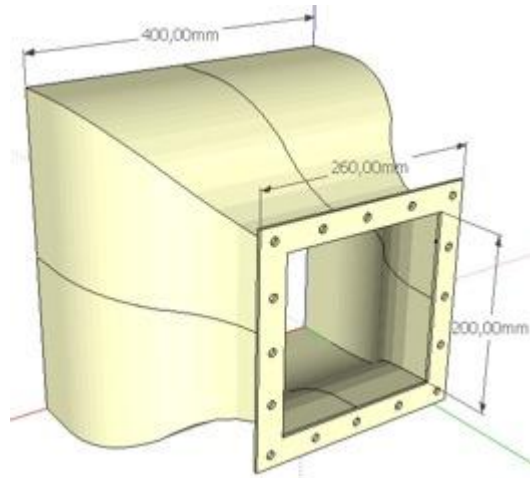


Making the wind tunnel parts – guide pipes (4000 straws)





Making the wind tunnel parts - compression difusor





Making the wind tunnel parts - ventilator from Nissan Sunny 1,6





Making the wind tunnel parts-measurment equipment

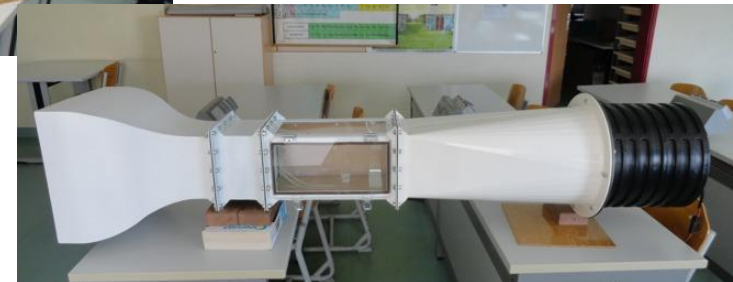
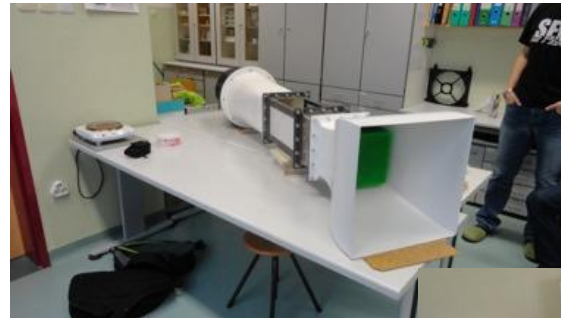
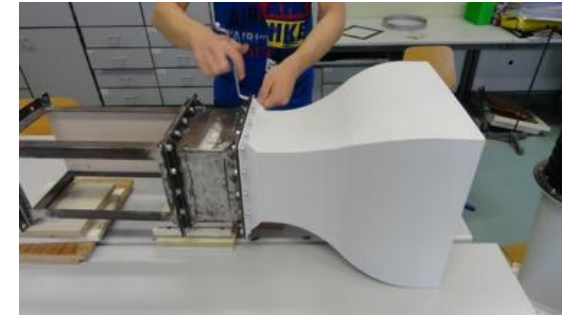


anemometer



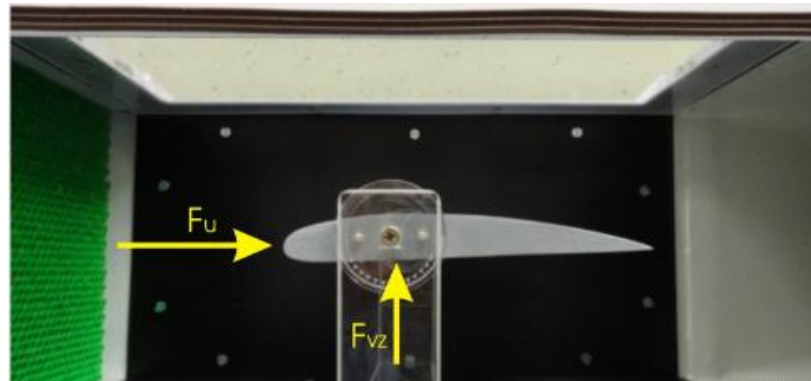
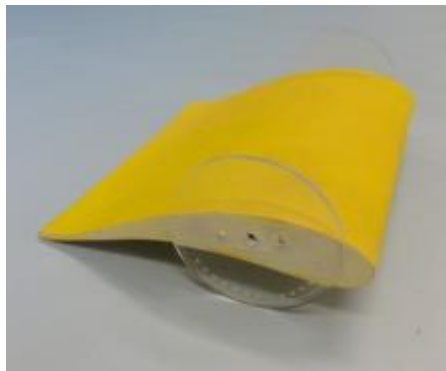
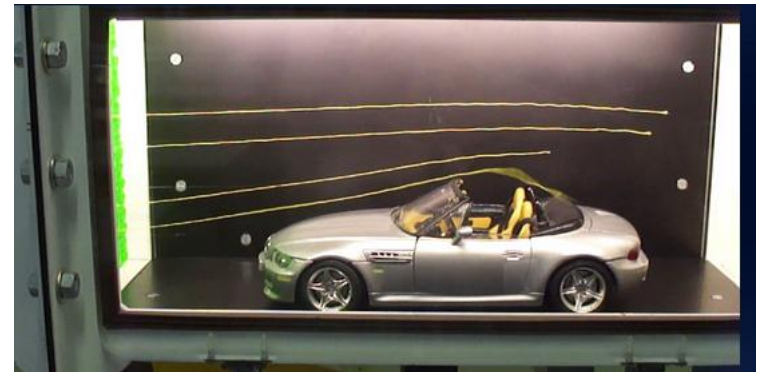


Assemble of components





Examples of measurements

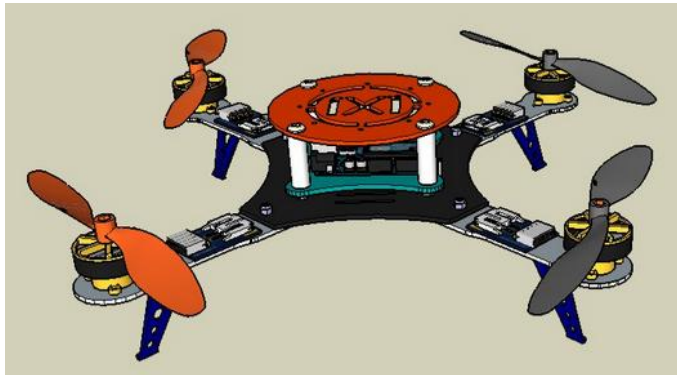


Laminar flow in chamber



New mini drone

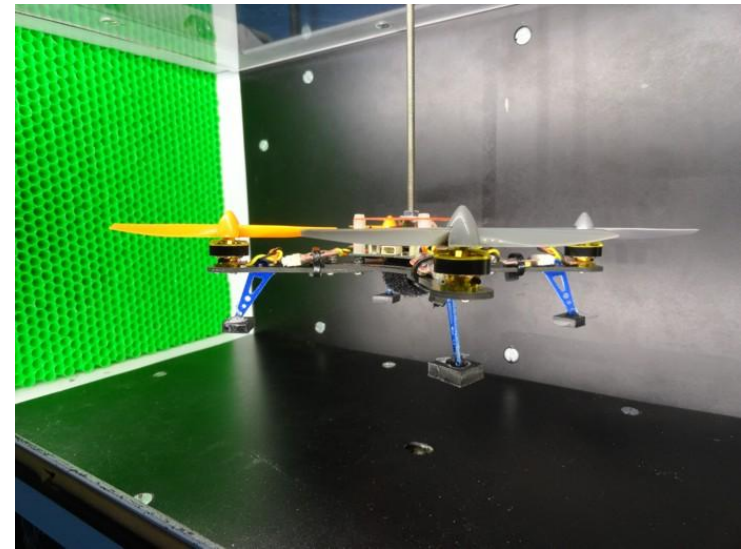
- Wind tunnel has 200mm*200mm in section, so our drone (250mm in diagonal) didn't fit into chamber.
- We had to buy new drone (AIJU helps in choosing one)
- Lots of problems – very low time of battery (charging every five minutes and losing power after a minute or two...)





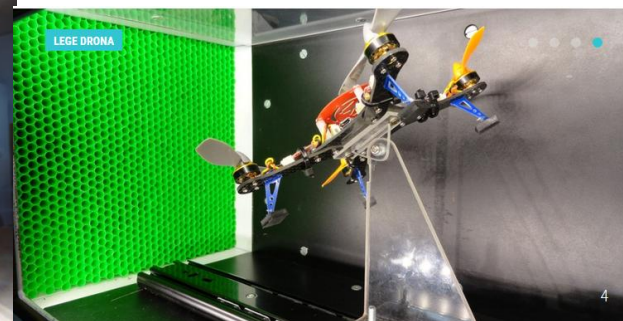
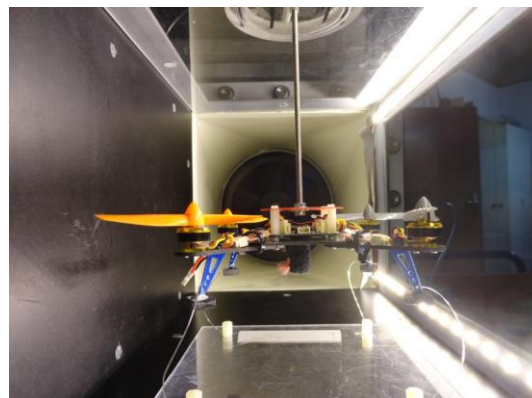
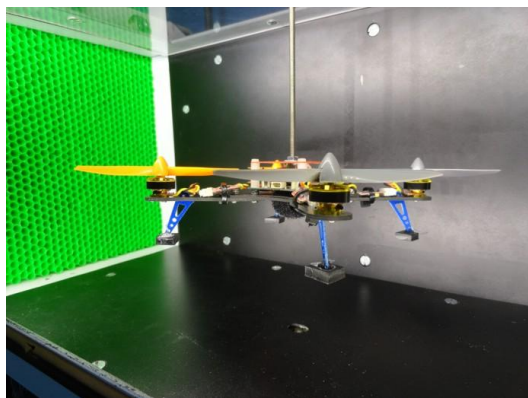
Wind Tunnel tests

- <http://www2.arnes.si/~sssksnm4/vetrovnik2/jango/theme/dron.html>



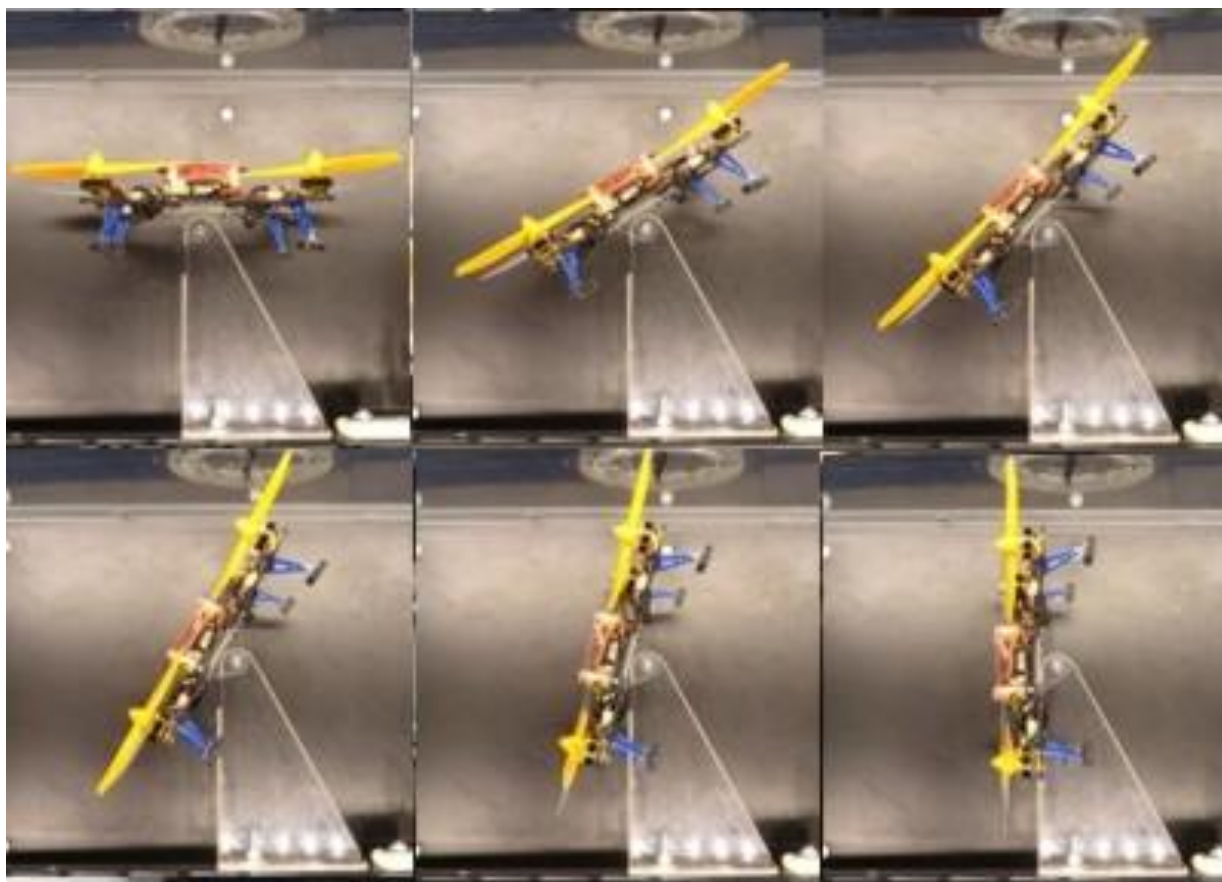


Making special holders



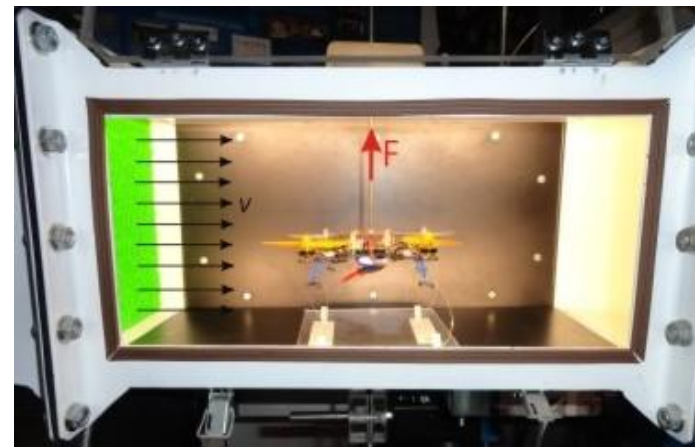
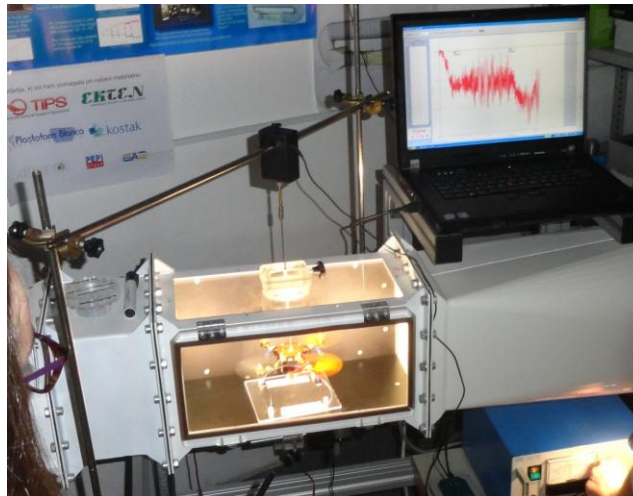


Drone in different positions





Measurement 1: horizontal velocity vs drag

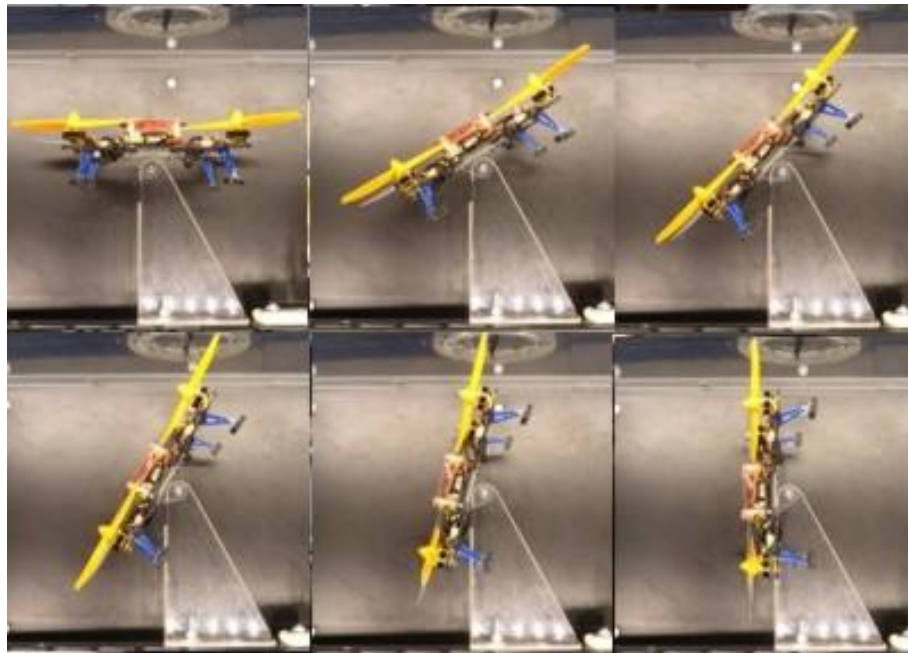


<http://www2.arnes.si/~sssknm4/vetrovnik2/jango/theme/dron.html>



Measurement 2:

AERODYNAMIC DRAG FORCE IN DIFFERENT POSITIONS



<http://www2.arnes.si/~sssknm4/vetrovnik2/jango/theme/dron.html>



Dissemination activities from last meeting: TEHNOGENIJ EVENT

Articles about fair Tehnogenij and Drone team	https://www.posavskiobzornik.si/novice/tehnogeniji-sestic-v-gen-u
	http://www.eposavje.com/on/26558-tehnogenij-2016-porocilo-in-fotografije.html
	http://www.dolenjskilist.si/2016/10/03/162860/novice/posavje/Tehnogenij_tokrat_najvecji_doslej/
	http://www.vaskanal.com/arhiv-oddaj/video/6318/Novice%2C-4--oktober-2016.html
	http://www.sc-krsko.si/index.php/spss/843-utrinki-s-tehnogenija-2016





Dissemination activities from last meeting: PRESENTATION FOR ABOUT 80 STUDENTS AND TEACHERS OF PRIMARY SCHOOLS, 4.10.2016





Dissemination activities from last meeting: DRONE TEAM AT INTERNATIONAL CONFERENCE SPECULUM ARTIUM IN TRBOVLJE, 13.10.2016





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Dissemination activities from last meeting: PRESENTATION FOR ABOUT 80 STUDENTS AND TEACHERS OF PRIMARY SCHOOLS, 13.10.2016



 Uporabnik **DroneTeam Project** je dodal nove fotografije (3).
Objavljen Franci Uduč [?] · 21. oktober 2016 · 

Presentation for primary schools on ŠC Krško-Sevnica. About 80 students and teachers from primary school OŠ Sevnica visited our school and we presented them work on our school and also Erasmus+ Drone team project.

Predstavitev za osnovne šole na sc krško-sevnica. Približno 80 študentov in profesorjev iz osnovne šole os sevnica obiskali našo šolo in smo predstavili jih delati na naši šoli je tudi erasmus+ dron ekipa projekta.

⚙️ Oцени ta prevod





Dissemination activities from last meeting: PRESENTATION FOR GUESTS FROM PORTUGAL, ESTONIA, FRANCE AND ITALY 8.11.2016





Dissemination activities from last meeting: PRESENTATION OF PROJECT ON 40TH ANNIVERSARY OF REGIONAL CHAMBER OF CRAFT AND SMALL BUSSINES OF SEVNICA, 18.11.2016





Dissemination activities from last meeting: PRESENTATION ON TECHNICAL DAYS, 25.11.2016





Dissemination activities from last meeting: TV SHOW VEM! 29.11.2016



Franci Uduč

12. december 2016 ·  

Vsem hvala za čestitke ob nastopu na kvizu Vem!

Tistim, ki me sprašujete, kje si lahko ogledate oddaje na spletu pa povezava:

<https://www.rtv slo.si/vem/arhiv-oddaj>

"Moje" oddaje najdete v terminih od 25.11.2016 do 30.11.2016





Dissemination activities from last meeting: PRESENTATION ON TECHNICAL DAYS, 22.12.2016





Dissemination activities from last meeting: PRESENTATION ON TECHNICAL DAYS, 6.12.2016





TECHNICAL FAIR _POKLICNA TRZNICA_ FOR PUPILS OF PRIMARY SCHOOLS, 6.2.2017





Dissemination activities from last meeting: PRESENTATION AT INFO DAY 2017





Dissemination activities from last meeting:
**VISIT OF MR. PRESIDENT OF REPUBLIC OF SLOVENIA
BORUT PAHOR, 1.3.2017**



<http://www.up-rs.si/up-rs/uprs.nsf/objave/3837E72B94DFCE80C12580D7005CD1D7?OpenDocument>



**PRESDENNIK REPUBLIKE SLOVENIJE
PRESIDENT OF THE REPUBLIC OF SLOVENIA
BORUT PAHOR**

Predsednik Pahor ob obisku Šolskega centra Krško-Sevnica: "Na naših šolah smo priča presežkom ustvarjalnosti!"

Ob prihodu v Šolski center se predsednik Pahorja pozdravilo dijaki. V laboratorijem šolskega lista se je na obisku, obiskoval Šolski center Krško-Sevnica. Profesor Pahor je predsedniku republike predložil projekt laboratorija za fakto, ki se bo sam upravljal na prostoru šole.

OB prihodu v Šolski center se predsednik Pahorja pozdravilo dijaki. V laboratorijem šolskega lista se je na obisku, obiskoval Šolski center Krško-Sevnica. Profesor Pahor je predsedniku republike predložil projekt laboratorija za fakto, ki se bo sam upravljal na prostoru šole.

Predsednik Pahor je dijake nagovoril, profesorju Pahorju pa se je zahvalil za prijano vabilo: "Zmasedi in izdelava laboratorija za fakto sta nova posebnost, saj smo žili delovalci. Da se v svojem obsegu zahvalim na to, g. Pahorju, hvalim vam, ki se sodelovali pri tem projektu. Tebišni promiki nos pomagamo in se šolski center šolski v okolici, hvalim se od vsega izobraževalni središč v Sloveniji." Predsednik Pahor je ob tem opozoril na šolske pripravne in dijake, ki mu pomagajo v svoji in vršnih, predpisa pa tako bolj razume, kako mlada, ustvarjalna generacija doživlja namere okoli sebe.

Photo: Daniel Nevalović / STA

V nadaljevanju oblika je jo predsednik republike ogledal učilnic za robotiko in CNC tehnologijo, kjer se je seznanil s praksonim učnim procesom. Bodoči strokovnjaki strojnega in elektro strojnejo pa se mu predstavili skrajno uspešno, s katerim se osvojili prvi uspehi na mednarodni šolski in šolski mreži, in se za osvajali in dokazovali s tem. Predsednik Pahor je jo ogledal laboratorij za fakto, izdelavo faktskih vaj ter dejal, da se samimi in pogum profesorja Pahorja navdihili vsem nam.

Photo: Daniel Nevalović / STA

Napovednik

torok, 18. 5. 2017
Predsednik Pahor se bo udeležil
konferenca 2017 - Fakulteta

črtek, 17. 5. 2017
Predsednik Pahor se bo udeležil
konferenca 2017 - Fakulteta

četrtek, 16. 5. 2017
Predsednik Pahor se bo udeležil
konferenca 2017 - Fakulteta

četrtek, 16. 5. 2017
Predsednik Pahor se bo udeležil
konferenca 2017 - Fakulteta

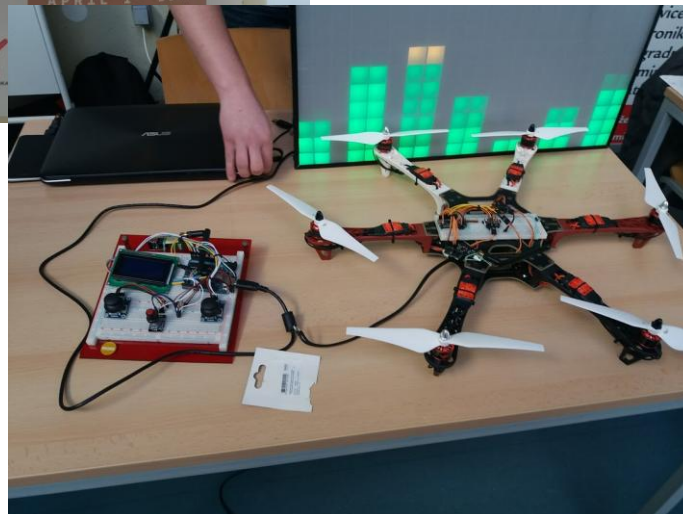
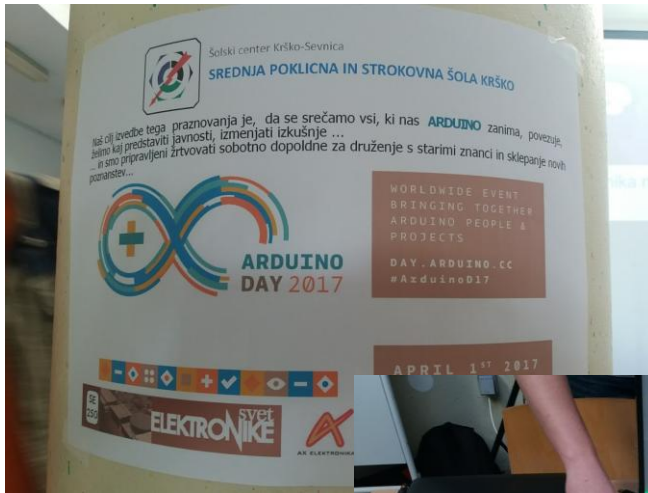
petek, 15. 5. 2017
Predsednik Pahor se bo udeležil
konferenca 2017 - Fakulteta

petek, 15. 5. 2017
Predsednik Pahor se bo udeležil
konferenca 2017 - Fakulteta

petek, 15. 5. 2017



Dissemination activities from last meeting: ARDUINO DAY 2017. ONLY SUCH EVENT IN SLOVENIA, HOSTED BY SC KRŠKO-SEVNICA ON 1ST APRIL 2017



Uporabnik **DroneTeam Project** je dodal nove fotografije (8).
Objavi Franci Uduč [?] · 1. april · 🌐

Arduino day 2017. Only such event in Slovenia, hosted by SC KRŠKO-SEVNICA on 1st April 2017. Drone team was there of course 😊

Prikaži prevod





ARTICLE ABOUT WIND TUNNEL AND PHYSICAL LAB IN NATIONAL NEWSPAPER DELO, 10.5.2017





Dissemination activities from last meeting: MEGADOM TECHNICAL FAIR 2017, 19.-21.5.2017

