

Programmēšanas apmācība, izmantojot MiniSumo robotu komplektus un dalība sacensībās

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Sacensību pieredze

- **2016 Robotex 2016** 1st, 2nd and 3rd places – Mini Sumo; 1st – MegaSumo
- **2016 Robot Challenge – Vienna, Austria** 1st and 2nd place Mini Sumo, 2nd place Mega sumo
- **2015 Robot Challenge – Vienna, Austria** 1st and 3rd place – Mega Sumo discipline Mini Sumo death-match win
- **Robotex 2015 - Estonia** 1st and 2nd place Mega sumo discipline
- **2014 International Robot Sumo Tournament** - Tokyo, Japan 1st place - Mega Sumo discipline
- **Robotex 2014** 1st, 2nd and 3rd places - Mega Sumo discipline 2nd place in Mini Sumo discipline
- **2014 Robot Challenge – Vienna, Austria** 1st, 2nd and 3rd places - Mega Sumo discipline Mini Sumo death-match win 1st place - Line Follower
- **Robotex 2013** 1st and 2nd places - Mega Sumo and Line Follower
- **2013 Robot Challenge – Vienna, Austria** (400 robots from around 30 countries) 1st, 2nd and 3rd places - Mega Sumo discipline Mini Sumo death-match win 2nd place - Line Follower
- **RoboGames 2013 USA** 1st and 2nd places - Mega Sumo 1st place - Mini Sumo 1st place – Line Follower
- **2012 All Japan Robot-Sumo tournament 24th - Tokyo, Japan** A tie between 13th and 14th places (more than 1000 participants in the games)
- **Robotex 2012** 1st, 2nd and 3rd places - Line Follower 1st, 2nd and 3rd places - Mini Sumo
- **2012 Baltic Robot Sumo – Riga, Latvia** 1st and 2nd places - Mega Sumo „Gauja” and „Firebolt” 2nd and 3rd places - „Fast&Furious” and „Spartan” 2nd place – Line Follower „Silent”
- **2012 Robot Challenge – Vienna, Austria** 1st place - Mini Sumo „Fast&Furious” 1st and 2nd places - Mega Sumo „Flash”
- **2011 All Japan Robot-Sumo tournament 23rd - Tokyo, Japan** 3kg (lb,pounds) sumo “Flash” – lost in round 1 of playoffs
- **Robotex 2011 – Estonia** 1st and 3rd places – Line Follower Robots - „Silent” and „Knight Rider”
- **2010 All Japan Robot-Sumo tournament 22nd - Tokyo, Japan** 3 kg sumo “Tachka V3” 52nd-48th places, total of 1300 robots
- **RoboGames 2010 USA** Mini sumo “Shpaktele”. 3 kg sumo “Tachka” - 2nd place
- **RobotChallenge 2010 – Vienna, Austria** Mini sumo “Shpaktele” - 30th-40th places of 120 robots Sumo 3 kg - 8th-16th places from 80 robots
- **Robotika 2010:** Mini sumo - 1st place, total of 11 robots
- **Baltic Robot Sumo 2009 LT** Mini sumo “Shpaktele” - 9th-11th places, total of 26 robots 3kg sumo “Tachka” - 4th-6th places, total of 13 robots
- **Baltic Robot Sumo 2009 Tallin, Estonia** Mini sumo “Shpaktele” - 7th-14th places, total of 22 robots
- **Robotika 2009** Mini sumo “Shpaktele” - 3rd place from 20 robots
- **Baltic Robot Sumo 2008** 3 kg sumo “Tachka” - 3rd place
- **Robotika 2008** Line Follower “Rat” - 3rd place
- **Robotika 2007** Line Follower “LineJet” - 2nd place from 26 robots
- **2007 “Inovācijas arēna”** Line Follower “LineJet” - 2nd place Line Follower “Amphibia V2” - DNF
- **Robotika 2006** Line Follower “Linijdiebis”

Rīkojam lielākās robotikas sacensības Latvijā

ICT DOME (EU24537)
 ESTONIA Latvia
 NĀC IEPAZĪT INŽENIERINĀTNES
BALTĪJAS ROBOTIKAS SACENSĪBĀS!
BALTIC ROBOT
 12. MAIJĀ NO PLKST. 11.00 RĪGĀ, STARPTAUTISKAJĀ IZSTĀŽU CENTRĀ ĶĪPSALĀ

ROBOTU SACENSĪBAS

ROBOTU PARAUĢDEMONSTRĒJUMI

TEHNISKĀS JAUNRADES DARBĪNĪCAS

ATRAKCIJAS

IESKĀTIJAS WWW.ROBOTIKA.LV

Atbalsta: KASITE, RTU, Swebank, Latvenergo, Latvian Gas, Draugi: iRobot, PERITO, Informative draugi: SCOT, student, Riko: ELFA DISTRIELEC, YLR

RTU ROBOTIKAS KLUBS **iRobot**

Latvijas Robotikas Čempionāts 2014

mini sumo
 mega sumo
 line follower
 irobot sumo
 lego sumo
 freestyle

12. aprīlī
 10:00 RTU Lielajā aulā
 Kaļķu ielā 1

pieteikšanās: www.robotika.lv
 līdz 10. aprīlim

RTU ROBOTIKAS KLUBS **iRobot**

LATVIJAS ROBOTIKAS ČEMPIONĀTS

25. MAIJĀ
 10:00 RTU Lielajā aulā
 Kaļķu ielā 1

MINI SUMO
 MEGA SUMO
 LINE FOLLOWER
 ROOMBA SUMO
 LEGO SUMO
 FREESTYLE

ORGANIZĒ:
 ROBOCHALLENGE '13
 ROBOGAMES '13
 UZVĀRĒTĀJI

PIETEIKŠANĀS: WWW.ROBOTIKA.LV
 LĪDZ 23. MAIJAM

RĪGAS TEHNISKĀ UNIVERSITĀTE

LATVIJAS ROBOTIKAS ČEMPIONĀTS

28. maijs
 PLKST. 10 RTU ETF,
 ĀZENES IELĀ 12, RĪGĀ

LEGO SUMO
 IROBOT SUMO
 MINI SUMO
 LINEFOLLOWERS
 MEGA SUMO
 FREESTYLE

REGISTRĀCIJA:
WWW.ROBOTIKA.LV
 LĪDZ 24.05.2016.

ROBOCHALLENGE '13
 ROBOGAMES '13
 UZVĀRĒTĀJI

PIETEIKŠANĀS: WWW.ROBOTIKA.LV
 LĪDZ 23. MAIJAM

RTU ROBOTIKAS KLUBS **iRobot**

2016. gadā: 62 komandas, 194 roboti, 189 dalībnieki no visas Baltijas

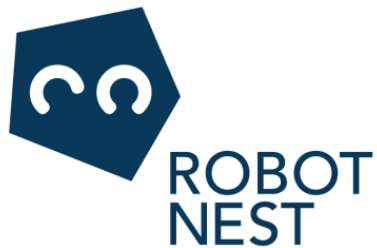
Mācam būvēt robotus



Kopš 2009 gada piedalāmies ar Robotikas darbnīcu



Organizējam dažādus robotu būvēšanas pulciņus



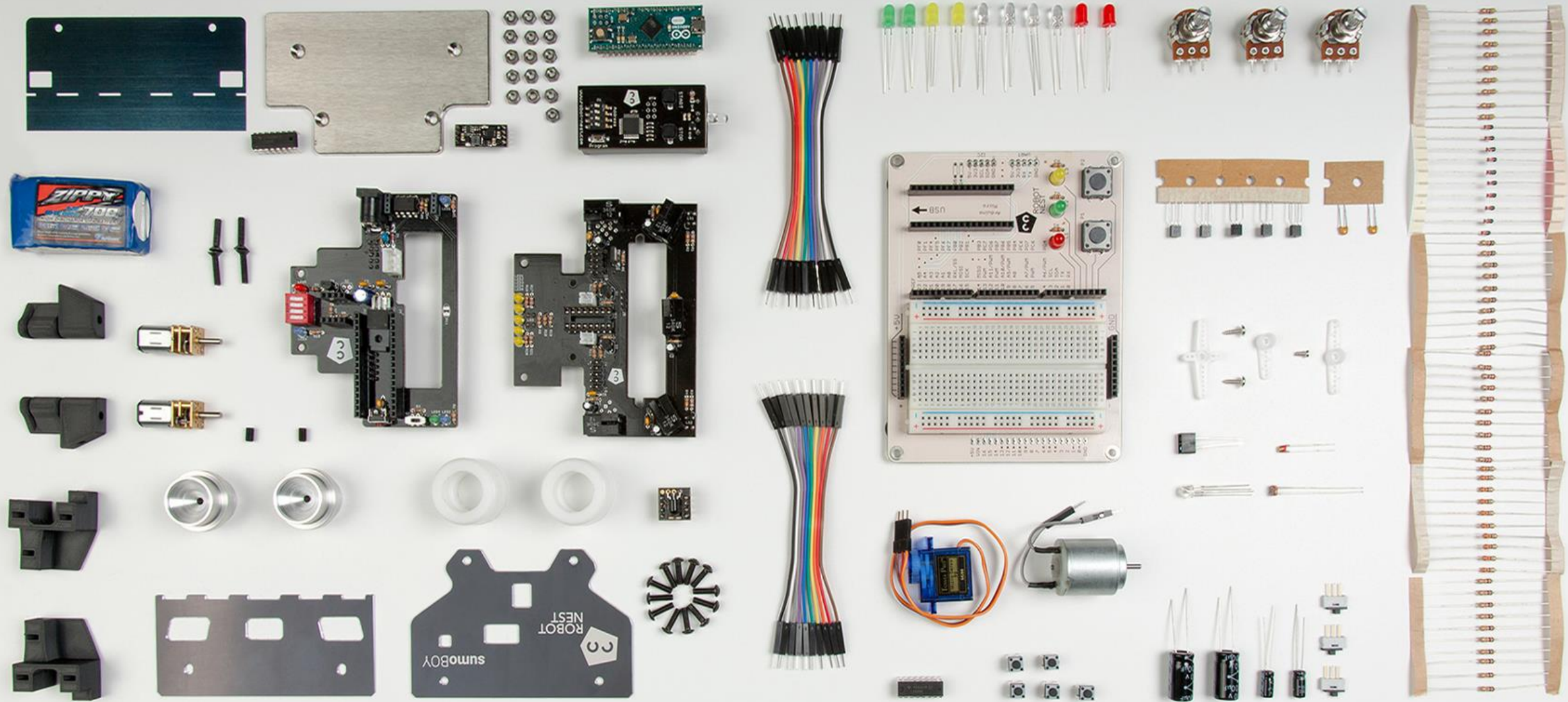
Pirmais Mini-Sumo mācību komplekts

"SumoBoy" v 1.0

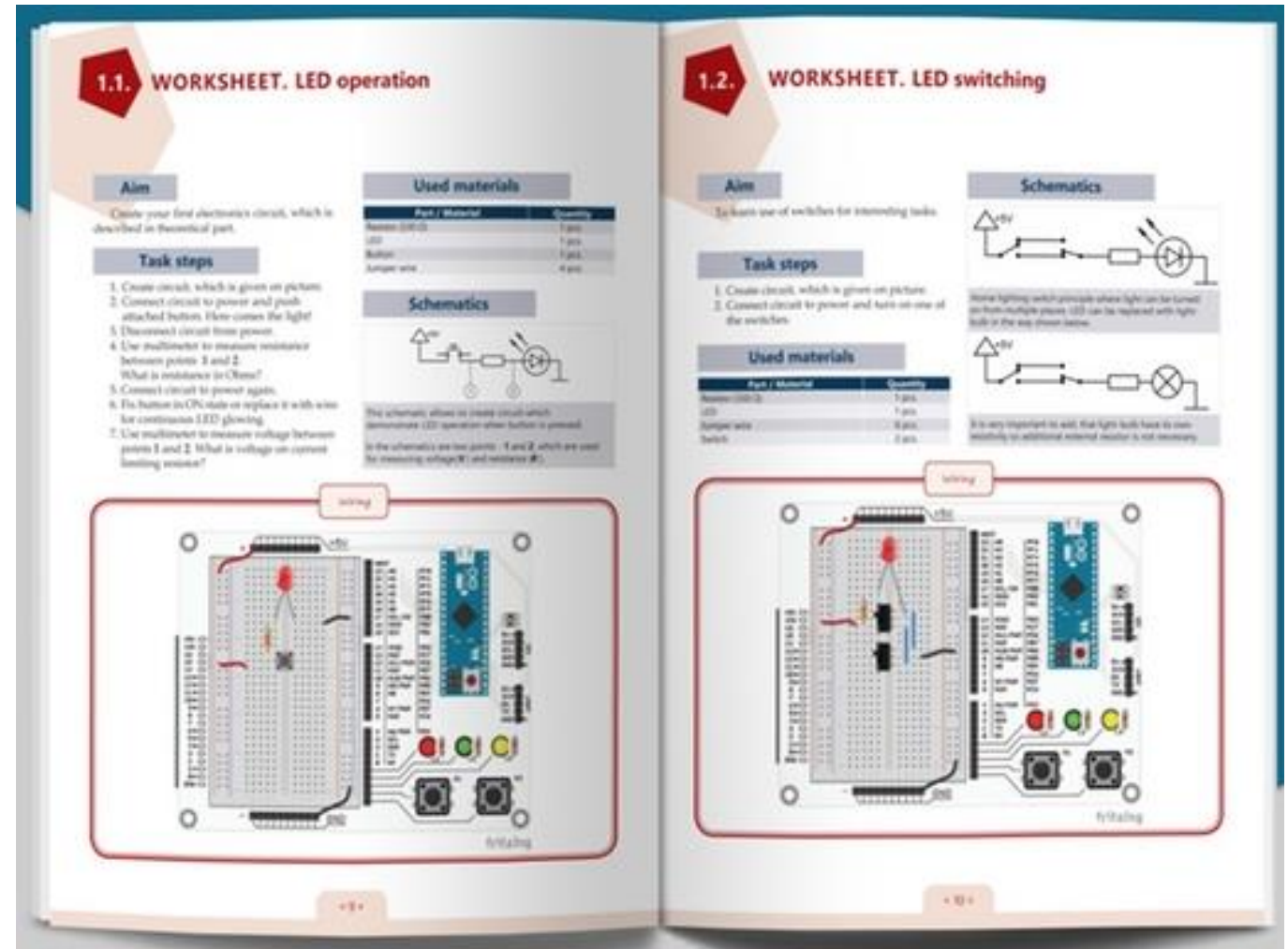
SumoBoy komplekts



SumoBoy komplekts



SumoBoy kompleks



SumoBoy komplekts





12/8/2016

Elektronikas diena-2016



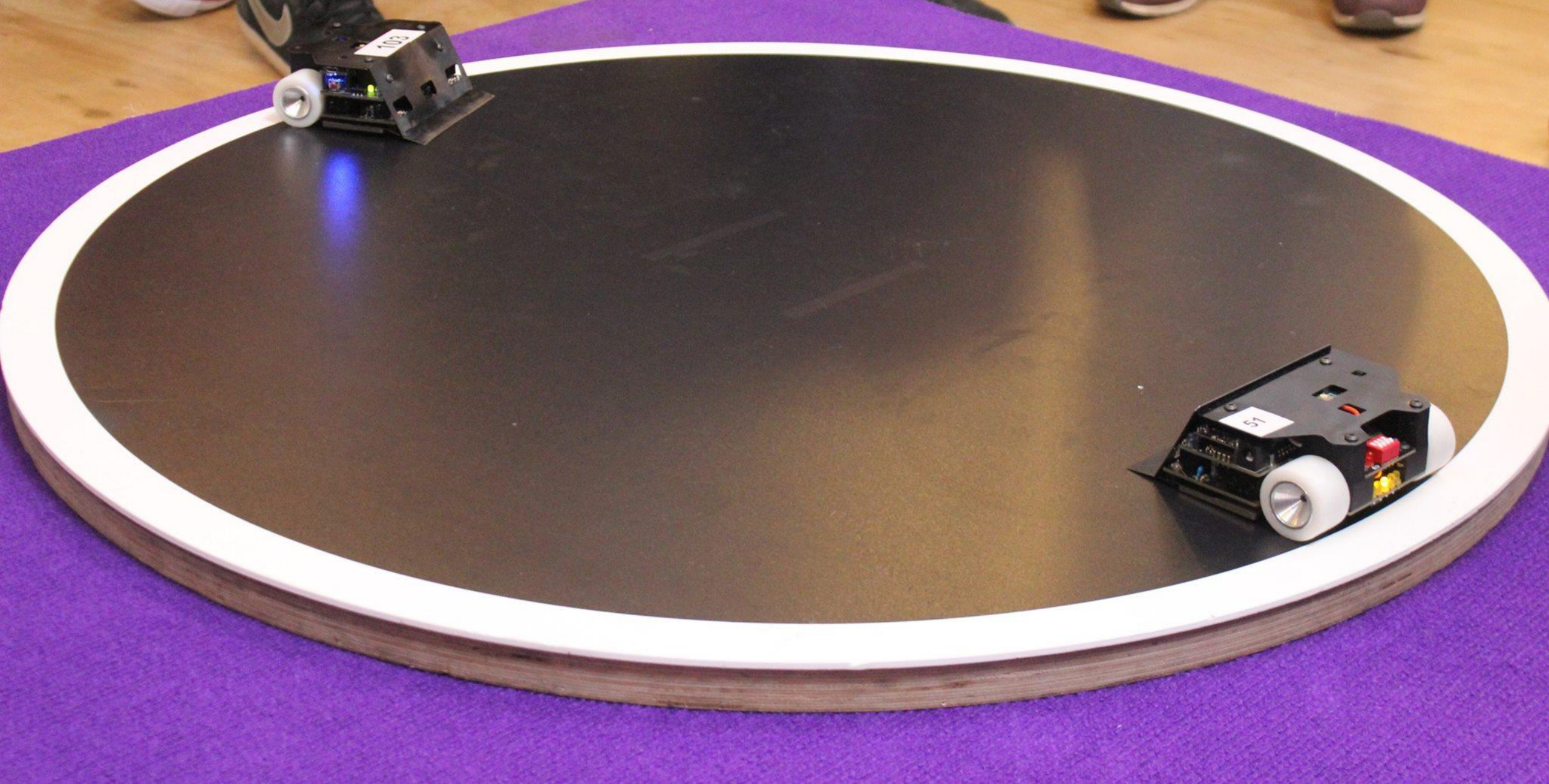
12/8/2016

Elektronikas diena-2016



12/8/2016

Elektronikas diena-2016



"SumoBoy" v 2.0

ArduBlock

The screenshot displays the ArduBlock software interface, titled "ArduBlock by Sumoboy PDF_code.abp *". The interface includes a menu bar with options: New, Save, Save As, Open, Upload to Arduino, Serial Monitor, and a Zoom slider. On the left, a sidebar lists categories: Control, Pins, Tests, Math Operators, Variables/Constants, Generic Hardware, and SumoBoy. The main workspace contains a block-based program:

- Setup:** A yellow "setup" block.
- Loop:** A yellow "loop" block containing:
 - Test:** A blue "Button State" block.
 - Then:** A yellow "while" block containing:
 - Test:** A blue "Button State" block.
 - Commands:** A yellow "Waiting" block.
 - Test:** A blue "not Button State" block.
 - Commands:** A pink "set integer variable" block with variable "motState" and value "All line sens to Dec tr Value 50".
 - Test:** A blue "motState > 0" block.
 - Then:** A green "LineDetected transmit motState" block.
 - Else:** A pink "set integer variable" block with variable "motState" and value "all Sharp Val", followed by a green "EnemyDetected transmit motState" block.
 - Test:** A blue "Button State" block.
 - Commands:** A red "Repeat every" block with "millis 100" and a green "Blink transmit Led3" block.

Two callout boxes provide additional information:

- A yellow callout box points to the "Waiting" block, stating: "If button is pressed wait 5 seconds before start. If button is not pressed after waiting - Excute main programm".
- A white callout box points to the "Repeat every" block, stating: "Executes COMMANDS if time since last execution is greater than MILIS milliseconds."

On the right, a vertical stack of blocks is visible, including "Blink" and "Waiting" blocks, with a "Turn Led State" block repeated multiple times. The bottom status bar shows "Save as image...", "Go to Web Site", and "v 21040826 (beta)".

Kas vēl jauns?



Paldies par uzmanību!

Tiekamies

www.robot-nest.com

