

Republic of the Philippines
Department of Education
Region VII, Central Visayas
DIVISION OF CEBU PROVINCE
Sudlon, Lahug, Cebu City



November 9, 2017

Division Memorandum
No. 753, s.2017

WORLD ROBOT GAMES 2018

To: Assistant Superintendents
Education Supervisors/ Coordinators
District Supervisors/OICs
Elementary and Secondary School Heads
Heads, Private Elementary & Secondary

1. Attached is Regional Memorandum No.0844 ,s.2017, dated November 07, 2017, entitled , “ World Robot Games 2018 .”
2. Immediate dissemination of this Memorandum is desired .


RHEA MAR A. ANGTUD, Ed.D., CESO VI
Schools Division Superintendent

Telephone Numbers:

Schools Division Superintendent: (032) 255-6405

Accounting Section: (032) 254-2632

Disbursing Section: (032) 255-4401

Website: www.depedcebuprovince.com

E-mail Add : depedcebuprovince@yahoo.com

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REPUBLIKA NG PILIPINAS
REPUBLIC OF THE PHILIPPINES
KAGAWARAN NG EDUKASYON
DEPARTMENT OF EDUCATION
REHIYON VII, GITNANG VISAYAS
REGION VII, CENTRAL VISAYAS
Sudlon, Lahug, Cebu City



REGIONAL MEMORANDUM

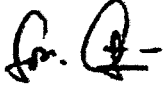
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WORLD ROBOT GAMES 2018

To: Schools Division Superintendents

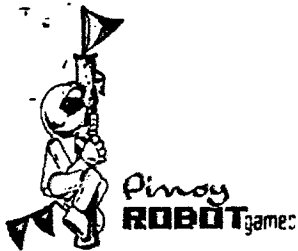
1. Attached is a communication from Melvin R. Matulac, DSTC Vice-President and Founder of Pinoy Robot Games, inviting all public and private schools in Region VII to the World Robot Games on October 24-26, 2018 at Tagaytay City.
2. For details, please refer to the attached communication or contact the following: 09178972349, (02) 4115541 or info@pinoyrobotgames.org.
3. For information and guidance of all concerned.


JULIET A. JERUTA, Ph.D., CESO V
Director III
Officer-in-Charge

JAJ/STJ/EBEJ/shs
CLMD'17

Office of the Director (ORDir), Tel. Nos.: (032) 231-1433; 231-1309; 414-7399; 414-7325; Office of the Assistant Director, Tel. No.: (032) 255-4542
Field Technical Assistance Division (FTAD), Tel. Nos.: (032) 414-7324 Curriculum Learning Management Division (CLMD), Tel. Nos.: (032) 414-7323
Quality Assurance Division (QAD), Tel. Nos.: (032) 231-1071 Human Resource Development Division (HRDD), Tel. No.: (032) 255-5239
Education Support Services Division (ESSD), Tel. No.: (032) 254-7062 Planning, Policy and Research Division (PPRD), Tel. Nos.: (032) 233-9030;
414-7065 Administrative Division, Tel. Nos.: (032) 414-7326; 414-4367; 414-7366; 414-7322; 414-4367
Finance Division, Tel. Nos.: (032) 256-2375; 253-8061; 414-7321

"EFA 2015: Karapatan ng Lahat, Pananagutan ng Lahat"



16 October 2017

Ms. Juliet A. Jeruta
OIC
Region VII
Sudlon, Lahug, Cebu City
Tel. Nos. (032) 231-1309
Email add: jjeruta55@yahoo.com

Dear Ms. Jeruta,

Greetings from PRG!

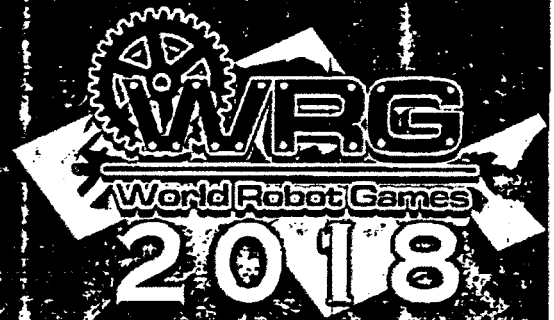
We are happy to announce that Tagaytay city will host the World Robot Games (WRG) 2018 in the Philippines on October 24 – 26, 2018. The event game categories will challenge participants to THINK, CREATE, INNOVATE and EXPLORE. The innovative category ("Invent your robot") features the theme "Explore and protect Benham rise".

The competition aims to promote and build the capacity of the different regions in applied robotics to respond to the needs of gifted individuals. It also serves as the start of the long preparation for the World Robot Games 2018.

For more information, you may contact us at 09178972349, tel. no. (02) 411-55-41 or email us at info@pinoyrobotgames.org

Sincerely,

Melvin R. Matulac
Vice President
Data Science and Technology Corporation
Founder, Pinoy Robot Games



"EXPLORE AND PROTECT BENHAM RISE"

**LET'S
MAKE
ROBOTS!**

WRG brings together
many bright & promising
young individuals
from around the world
to learn & compete
with the best.

Young Filipino are tech savvy.
But more and more,
they imagine
and create new technologies.

Kids invent new robots for
agriculture, disaster recovery,
fisheries, security, and many
more.

It is a golden
opportunity of
learning & inventing
for teachers
and students.

It is also a place
for start-ups to
pick new ideas
to drive a new
industry



**Pinoy
ROBOT**

www.pinoyrobotgames.org



Join us!

2018 International Robotics Contest in the PHILIPPINES

data science
and technology corporation

www.dstc.com.ph

Products and Services:

- Robotics Program for Schools
- Robotics Club Program
- Robotics in STEM Curriculum
- Robotics Camp and Contests
- Training for International Contests
- Educational Robot Kits

Contact us

✉ info@pinoyrobotgames.org
www.pinoyrobotgames.org
 (+63) 917 8972 349
 (+63) 411 5541

International Partners:



1500

Organizer:



Build

Solve Problems



Innovate

Awaken the Inventor in you!

Let's Make Robots!

HIGHLIGHTS

2007 November 2007: PRG brings 3 Filipinos to join The 9th IRO at ITE, Singapore. PRG trains a small group in robotics.

2008 October 2008: First National Robotics Competition at Cubao
December 2008: NRC winners join The 10th IRO at Kuala Lumpur
PRG evaluates different robot kits for schools

2009 October 2009: NRC held at SM Mall of Asia with Honda Cars Philippines as the sponsor. PRG sends 20 to 11th IRO at South Korea.
Philippines wins Silver Medals in the 11th IRO.

2010 December 2010: PRG sends 15 to the 12th IRO at Australia.

2011 January 2011: NRC held at Trinoma. 30 participants win Silver medals in IRO Indonesia.
** Develops K-12 Curriculum in Robotics.

2012 October 2012: NRC held at San Juan City. PRG sends 47 to IRO Korea.
Philippines bagged 17 awards in the IRO Korea.

January 2013: NRC held at SM Megamall.
December 2013, 27 participants win 20 awards in IRO Denver.

January 2014: NRC held at Philippine Trade Training Center.
PRG sends 75 to IRO Beijing.
Philippines wins 42 awards in the IRO Beijing.

2014 PRG partners with DEPED NSTF for robot contest.
June 2015: WRG held at Jakarta, Indonesia.
Over 180 Filipinos sent to IRO Korea yielded 90 medal tally.

2015 634 joins the NRC with Satellite games in Cebu and Iloilo
Total of 433 participants with 267 medal tally from International Contests (WRG, IRO, ARC, China Open)
** PRG becomes partner of Australian Robotics Challenge

2016 PRG partners with FIRDA
PRG gets invited to ALL-JAPAN International Sumobot

2017 PRG partners with FIRDA
PRG gets invited to ALL-JAPAN International Sumobot

2018 Philippines hosts International Robotics Contest



Melvin R. Matulec
Founder, Pinoy Robot Games

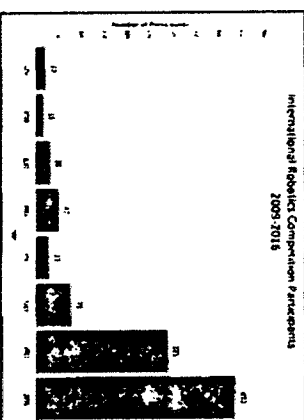
The surge of international robot contests and the prowess showed by kids in building their own robots inspired a group of Filipino friends to form the organization Pinoy Robot Games (PRG) with the aim of having Filipinos win medals in international robot contests. The initiative was primarily funded by Data Science and Technology Corp (DSTC). The effort started in 2007 by training a small

group of students with a few robot kits. PRG developed robotics training materials, robotics curriculum, designed robot games to develop the creativity and skills of Filipino youth, conducted annual national robotics competitions, and trained the Philippine team to several international contests. In the year 2016, PRG and DSTC trained close to 300 students, participated in four international contests and yielded 200 medals for the Philippines. DSTC collaborated with several schools in the use of the research-based robotics curriculum developed by PRG. The methodology was able to raise champions among these schools and an excellent sustainability program. After 10 years, PRG knows the exact formula for success in educational robotics in the Philippine setting.

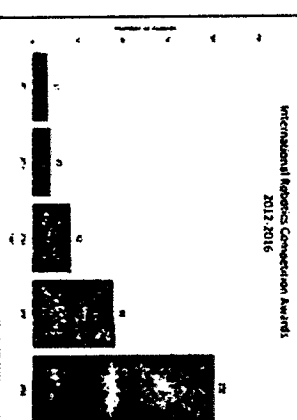
PARTICIPATING SCHOOLS

DepEd Division	
Abulaya City	BUZ, DRS, ESM, JRCM
Alabang City	FEU, GEC, ISM, JRCM
Alabang City	MAVIA, MGC, JS, JRCM
Alabang City	PSHS (Science & Arts)
Alabang City	SU (Dumaguete)
Alabang City	USC & SCS (Cebu)
Alabang City	UNCA (Bacolod)
Alabang City	UNCA (Cebu)
Alabang City	UNCA (Davao)
Alabang City	UNCA (Iloilo)
Alabang City	UNCA (Manila)
Alabang City	UNCA (Makati)
Alabang City	UNCA (Mandaluyong)
Alabang City	UNCA (Marikina)
Alabang City	UNCA (Muntinlupa)
Alabang City	UNCA (Navotas)
Alabang City	UNCA (Quezon City)
Alabang City	UNCA (San Juan City)
Alabang City	UNCA (Taguig)
Alabang City	UNCA (Valenzuela City)

International Robotics Competition Participants 2009-2016



International Robotics Competition Awards 2012-2016



18th International Robot Olympiad 2016 - China



HIZON, Rafael
PINEDA, Jose
GATO, Mary

GOLD MEDALISTS - Creative Category Challenge "Aqua 2.0 (Aquatic Zero) Or Shrimling Robot"
Colegio de San Juan de Letran, Cebu

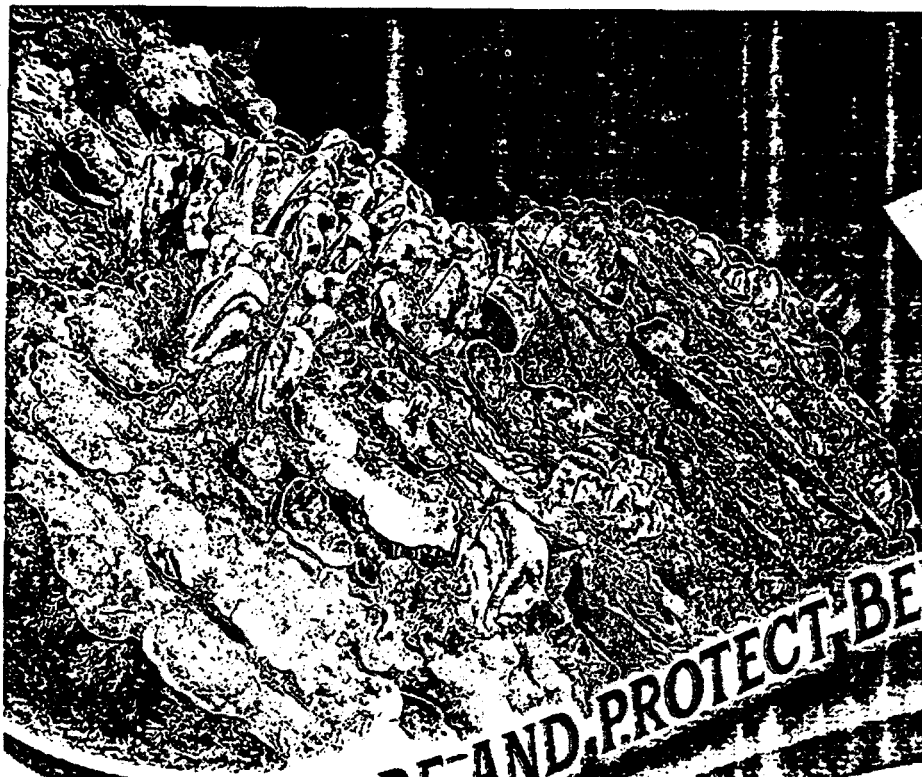
3rd Australian Robotics Challenge 2016



FERNANDEZ, Jihan
SM, Marissa
WONG, Beatrice

GOLD MEDALISTS - 3D Design Challenge "ROB (Rescue, Optimization, 3D) Vex"
Pagadian Universal Institute

ACHIEVEMENTS



WVRG
World Robot Games
2018

"EXPLORE AND PROTECT BENHAM RISE"

LEARN

CREATE

LET'S MAKE ROBOTS!

INVENT

INNOVATE



**Pinoy
ROBOT**



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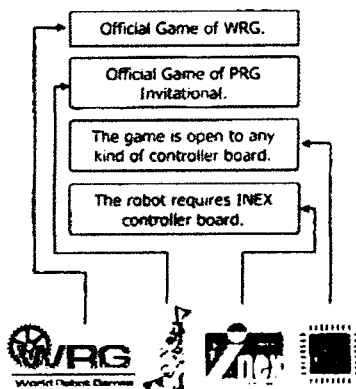
✉ info@pinoyrobotgames.org
 🌐 www.pinoyrobotgames.org
 📞 (+63) 917 8972 349 (look for Ms. Reo)

LEGEND of ICONS

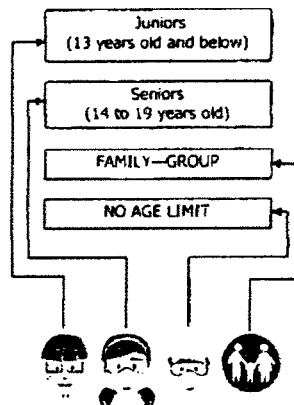
NOTE:

When the icon is gray, it doesn't apply.

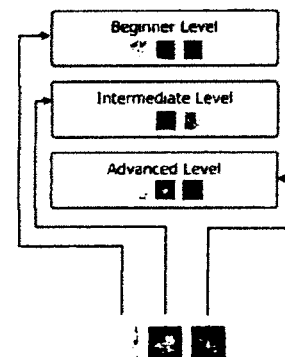
Event | Controller Board



Game Category by Age

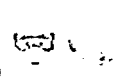


Level of Difficulty



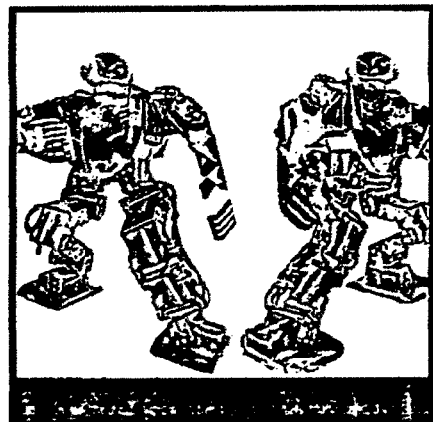
AUTONOMOUS SUMO BOT COMPETITION

The most attended contest among beginners and intermediate level. Participants build an autonomous robot that can search and push an opponent out of ring. It is a battle of wits and strategy.



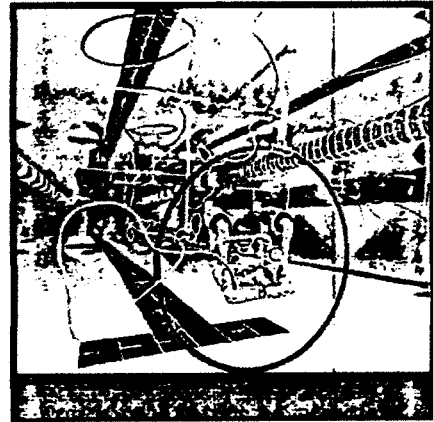
REMOTE CONTROLLED LEGGED SUMO BOT COMPETITION

Participants build a robot that mimics walking with two legs. They have to solve problems of balance and mobility as the robot engages in a pushing match against another.



SEAPERCH UNDERWATER ROBOT COMPETITION

An innovative underwater (ROV) robot contest that allows participants to use Engineering & Science concepts in a marine engineering environment. Throughout they learn skills in ship and submarine design and solve problems related to it.



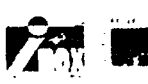
ROBOT DANCING COMPETITION

A robot shaped like a human is called a humanoid robot. The challenge is how to make it move without falling. Participants must watch for the center of gravity while creatively program a choreography of movements for a set of music.



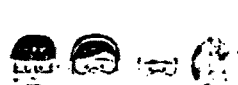
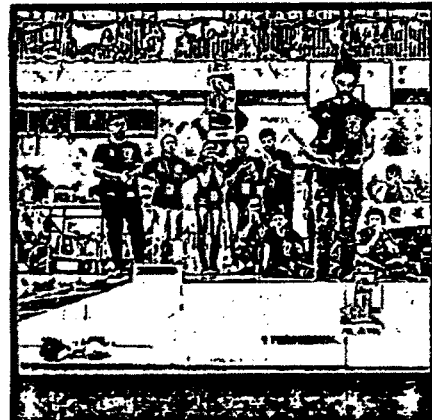
FIRE FIGHTING ROBOT COMPETITION

Participants build a robot that navigates rooms and corridors to search for fire and extinguish it. The same functions can be extended to home security applications.



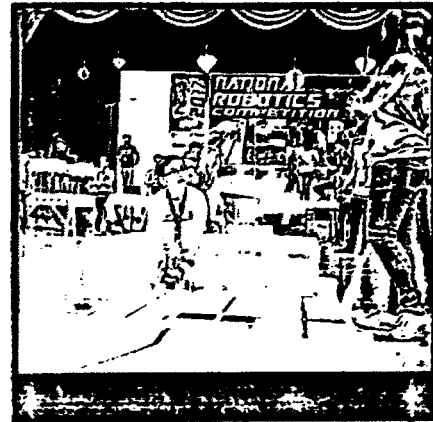
MISSION CHALLENGE

The game exposes participants to the challenges a robot must overcome in a post disaster situation. Participants build a robot that can clear the areas for hazardous materials and rescue survivors.



LINE TRACING COMPETITION

Robot navigation is a modern day problem. Providing lines to follow allow a robot to reach it's destination. But challenges and obstacles will put the robot design and it's sensors to it's limit. Participants must work around the problems and complete the task.



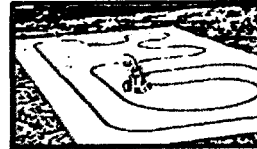
mBot



WRG



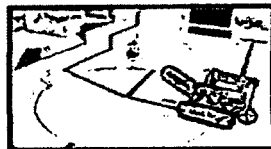
iBEAM



WRG



Extreme

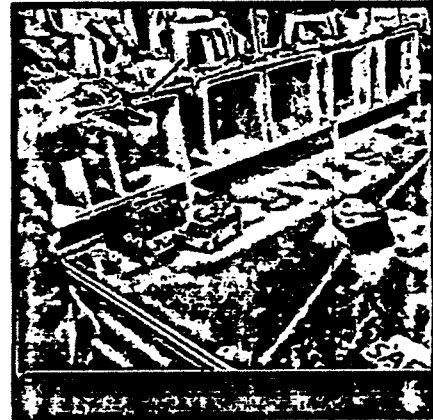


WRG



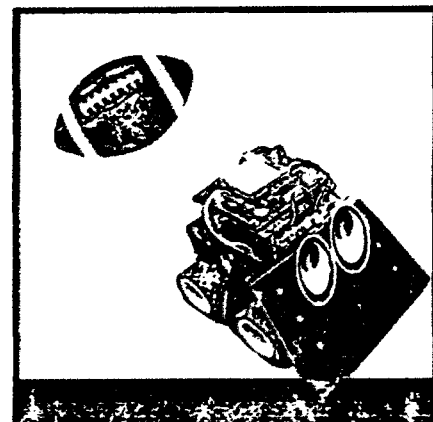
BATTLE BALL'Z

An exciting robot game for advanced players. They will have to design & build robots, develop strategies, work as a team, and keep evolving as the game progress. The team of 5 can use several robots with different design configurations.



WHEELED ROBOT RUGBY

Rugby is a team sport where a plum-shaped ball is brought to the end goal to score. The game will have 5 robots on each side trying to go after the same ball and score a goal. Robots must be able to withstand abuse of bumping and bring the plum-shaped ball across the goal line.



SEARCH AND RESCUE ROBOT COMPETITION

An extreme challenge for robot builders. The game uses a real world environment. The robot must be able to climb stairs, cross gaps, clear debris and other tasks representing partially collapsed structure.

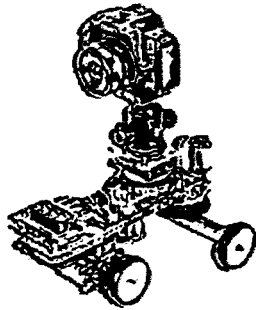


INNOVATIVE ROBOT COMPETITION

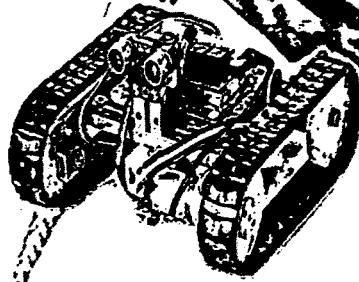
Benham Rise is an unexplored part of the Philippines. Marine scientists need to catalog and study the ecosystem to bring about its maximum potential for the Filipinos. Participant will invent devices and robot tools that can be useful for exploring and protecting Benham Rise.



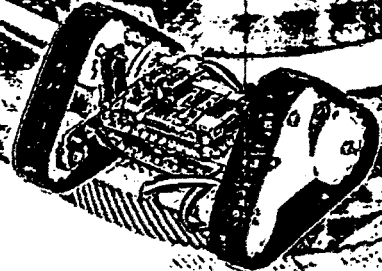
ROBOT BUILDER STEM-C



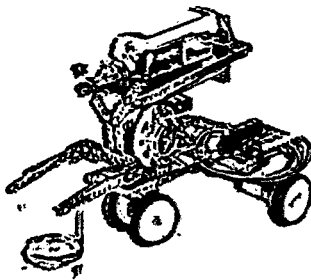
CAMERA DOLLY



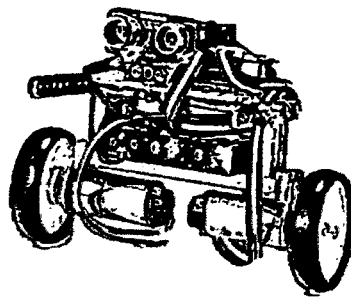
DETECTING ROBOT



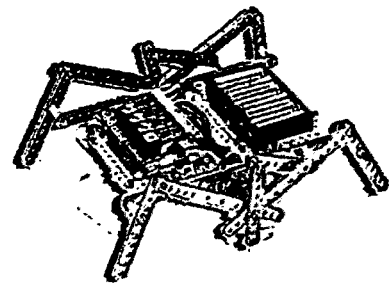
ROLLING TANK



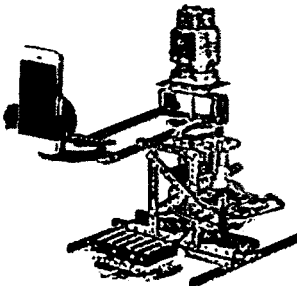
ROBOTIC BARTENDER



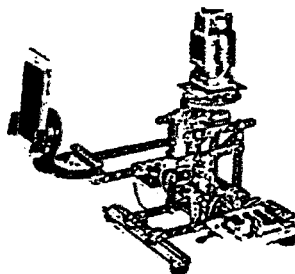
SELF BALANCING ROBOT



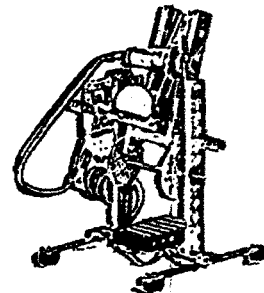
ROBOTIC ANT



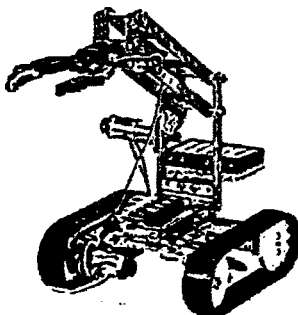
3D CAPTURE A



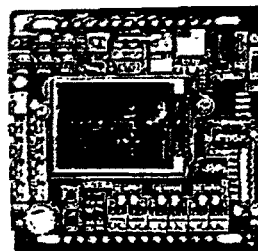
3D CAPTURE B



CATAPULT ARM



ROBOTIC ARM TANK



**ATX2 MICROCONTROLLER
BOARD**



Bioloid

data science
and technology corporation

Contact Us

robot@pinoyrobotgames.org

www.ds2.com.ph

(+63) 917-8972-349

632-47115541

632-725-2388

Robonova

