Maslab Scoring

1 Point  Possesion of red ball

3 Points  Ball through yellow hole

5 Points  Field Goal!
          Ball between yellow uprights
Anagrams!

• Rearrange the letters below to spell an exciting IAP activity

Assembles a mutinous lobotomy
Anagrams!

• Rearrange the letters below to spell an exciting IAP activity

Assembles a mutinous lobotomy

= Mobile Autonomous Systems Lab
Did you know???

- Maslab’s most popular majors are:
  - Course 6 Electrical Engineering & Computer Science
  - Course 18 Mathematics
  - Course 2 Mechanical Engineering
  - Course 16 Aeronautics and Astronautics
Advanced Circuits fabricates circuit boards for Maslab based on our custom designs
Maslab course material will be posted online thanks to the generosity of MIT Open Courseware

http://ocw.mit.edu
Maslab Quiz!

• What do the letters PSoC stand for?
  • Penn State Outing Club
  • Philalethes Society
  • Princeton Sewer Operating Committee
  • Programmable System On Chip
Maslab Quiz!

• What do the letters PSoC stand for?
  
  • Philalethes Society
  • Princeton Sewer Operating Committee
  • Programmable System On Chip
Maslab Quiz!

• What do the letters PSocC stand for?

  • Princeton Sewer Operating Committee
  • Programmable System On Chip
Maslab Quiz!

• What do the letters PSoC stand for?

• Programmable System On Chip
PSoCs from Cypress Microsystems are an crucial component for controlling the robots
Maslab is brought to you by the letters M,I,T,E,E,C,S!

Massachusetts Institute of Technology
Department of Electrical Engineering and Computer Science
Maslab trivia

Q. Why is there a blue line at the top of the wall?
Maslab trivia

Q. Why is there a blue line at the top of the wall?

A. The robot ignores anything above the line. That keeps it from seeking out items outside the playing field… Like your red or green shirt!
Maslab trivia!

• Which of the following was NOT the inspiration for a former Maslab robot?
  • Fluffy white rabbit
  • Ankur’s Mom
  • Tom Brady
  • The Stata Center
Maslab trivia!

• Which of the following was NOT the inspiration for a former Maslab robot?
  • Fluffy white rabbit
  • Ankur’s Mom
  • Tom Brady
  • The Stata Center
Maslab trivia!

• Which of the following was NOT the inspiration for a former Maslab robot?
  
  • Tom Brady

• Tom Brady has never inspired a Maslab robot, but we forgive him. “Go Pats!”
Did you know???

• Maslab’s special GlobTek power supplies are ordered months in advance to allow for a long sea voyage and customs adventure!
Maslab trivia

• Which company’s microprocessor handles Linux, Camera, and Java tasks?
  • Intel
  • Via
  • AMD
  • IBM
  • Sun
Maslab trivia

- Which company’s microprocessor handles Linux, Camera, and Java tasks?
  - Intel
  - Via
  - AMD
  - IBM
Maslab trivia

- Which company’s microprocessor handles Linux, Camera, and Java tasks?
  - Via
  - AMD
  - IBM
Maslab trivia

• Which company’s microprocessor handles Linux, Camera, and Java tasks?
  • Via
  • AMD
Maslab trivia

• Which company’s microprocessor handles Linux, Camera, and Java tasks?
  • Via

• Maslab robots use tiny x86-compatible 733MHz Via “Eden” single-board computers ordered from our sponsor, Digital Technology, Inc.
Maslab is grateful for the support of...
Get a raffle ticket and stick around! After the contest, we’ll give away:

- Roomba Autonomous Vacuum
  - iRobot
- Robot and Computing Books
  - MIT Press / Bookstore
- A Geode single board computer
  - Digital Technology, Inc.
- Dance Dance Revolution Kits
  - Microsoft
Get your motor running…

- Maslab uses motors from Click Automation
Adaptors from Elexol Electronic Solutions allow our robots to “speak” USB.
Our robots know their rate of rotation thanks to MEMS Gyroscopes from Analog Devices
Tonight’s Schedule

• 5:00pm – 5:30pm
  • Open house, chat with teams, vote for best-dressed robot

• 5:30pm – 8:00pm (approx)
  • Contest Scoring Rounds

• 8:00pm – 8:30pm
  • Awards, Raffle

• 8:30pm
  • Non-scoring demo rounds, audience welcome to stay
Did you know?

• The Maslab teams have never seen the playing field in its current configuration!

• Robots must use their sensors (not a preplanned path) to navigate the field and find red targets / yellow goals
Did you know?

• Nintendo Entertainment System Power/Reset buttons make handy bump sensors!
Primary Sponsors

E E C S

Massachusetts Institute of Technology
Department of Electrical Engineering and Computer Science

MIT OPEN COURSEWARE

Cypress MicroSystems
A subsidiary of Cypress Semiconductor
Sponsors and Equipment Contributors
Maslab is grateful for the support of...