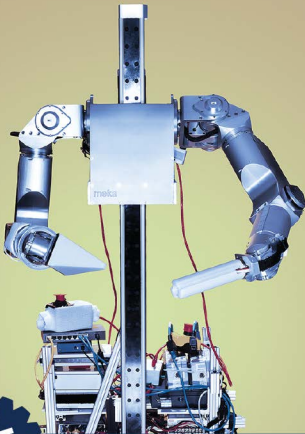


CODY

ReacherBot (into the Unknown)



NATIONAL
Robotics
WEEK

CODY



Position: ReacherBot (into the Unknown)

Coaches: Charlie Kemp and PhD students in the Healthcare Robotics Lab



Stats: New control method works in tandem with compliant robotic joints and whole-arm tactile sensing to intelligently maneuver within clutter and gently make contact



Hometown: Georgia Tech

Fun Fact: Destined to be an in-home personal assistant, Cody can reach through cinder blocks and dense foliage with its eyes closed!

CURIOSITY

Robotic Rover Exploring Mars



NATIONAL
Robotics
WEEK

CURIOSITY



Position: Robotic Rover Exploring Mars

Coaches: Jet Propulsion Laboratory Team Members



Stats: Roughly the size of a car; investigates whether Mars has ever had environmental conditions favorable for life; equipped with 10 science instruments



Hometown: NASA

Fun Fact: Curiosity's software has over 500,000 lines of code, and it carries a nuclear power source that could power it for years.

EASE

Small Hovering Robot for Inspection & ISR



NATIONAL
Robotics
WEEK

EASE



Position: Small Hovering Robot for Inspection & ISR (Intelligence, Surveillance, and Reconnaissance)

Coach: Helen Greiner



Stats: EASE stands for Extreme Access System for Entry; after a mission, you can grab it out of the air while it is hovering; its tether doesn't get tangled or constrain its movements

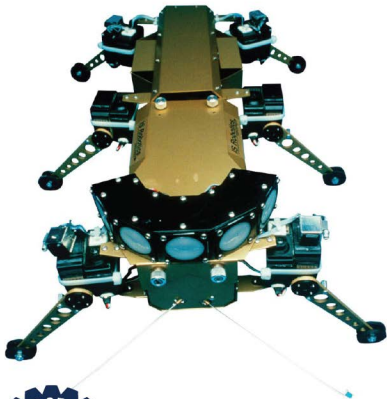


Hometown: CyPhy Works

Fun Fact: Its airframe is more similar to an insect's exoskeleton than to a conventional aircraft.

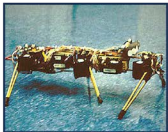
GENGHIS

Six-Legged Robot



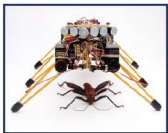
NATIONAL
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GENGHIS



Position: Six-Legged Robot

Coaches: Rodney Brooks and former MIT students, including Colin Angle, iRobot CEO



Stats: Built in the summer of 1988 in only 12 weeks; demonstrates how complex behaviors, such as crawling, can emerge from a network of simple, decentralized controllers



Hometown: MIT

Fun Fact: The original Genghis resides in the Smithsonian Air and Space Museum.

DRIVE UNIT

Mobile Robot for Automating Warehouses



NATIONAL
Robotics
WEEK

DRIVE UNIT



Position: Mobile Robot for Automating Warehouses

Coaches: Peter Wurman, Mick Mountz, and Raffaello D'Andrea



Stats: Capable of operating autonomously in groups of hundreds; decentralized software architecture; able to lift 1,000 pounds

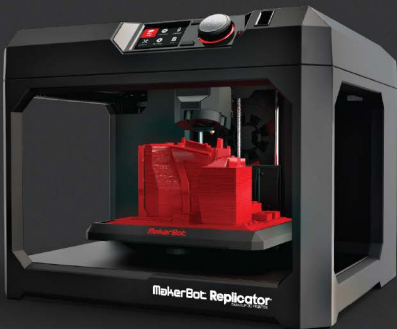


Hometown: Kiva Systems

Fun Fact: In early 2012, online retailer Amazon acquired Kiva Systems to revolutionize its operations across the globe.

MAKERBOT REPLICATOR

Desktop 3D Printer



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MAKERBOT REPLICATOR



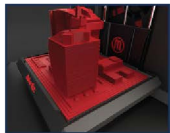
Position: Desktop 3D printer

Coach: Bre Pettis

Stats: Weighing in at only 36 lbs., it packs a powerful punch for its size with 100-micron resolution as it lays down thin, melted layers of corn-based plastic to create real objects; its Smart Extruder's network of sensors keep it working hard no matter what curveballs it faces.

Hometown: MakerBot Industries

Fun Fact: MakerBot has more than 500K free models to download and 3D print on Thingiverse.com.



NAO

Humanoid Designed to Interact with People



NATIONAL
Robotics
WEEK

NAO



Position: Humanoid Designed to Interact with People

Coach: Fumihide Tomizawa



Stats: Able to track objects and recognize speech; capable of communicating with other nearby robots; graphical user interface for robot programming



Hometown: Aldebaran Robotics

Fun Fact: In 2014, NAO helped children with their seasonal flu vaccinations by distracting them with small talk and high-fives, and these children reported experiencing 50% less pain.

PACKBOT

Multi-Mission Robot



NATIONAL
Robotics
WEEK

PACKBOT



Position: Multi-Mission Robot

Coaches: Colin Angle, Tom Frost, and Helen Greiner



Stats: Manipulator with lift capacity of 30 pounds; able to climb stairs and slopes up to 60 degrees; equipped with multiple pan-tilt zoom cameras

Hometown: iRobot Corporation



Fun Fact: Robot operators can control their robots from 1000 meters away and receive real-time visual, audio, and sensor data at all times.

PLEO RB

Robotic Companion Dinosaur Pet



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Robotics
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PLEO RB

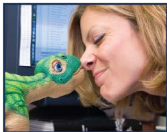


Position: Robotic Companion
Dinosaur Pet

Coach: Caleb Chung



Stats: Skin made of thermoplastic elastomer material; modeled after a Camarasaurus; changes its behavior over time and interacts with other Pleos nearby; 100% handmade so no two are identical



Hometown: Innvo Labs

Fun Fact: Designed to mimic life, Innvo Labs Life OS creates an artificial intelligence so that Pleo “thinks” and acts independently.

SEGWAY

Self-Balancing Electric Scooter



NATIONAL
Robotics
WEEK

SEGWAY



Position: Self-Balancing Electric Scooter

Coaches: Dean Kamen and Rod Keller



Stats: Used by commuters, patrol officers, tour groups, and as a platform for mobile robots; able to carry up to 260 lbs.; capable of turning in place



Hometown: Segway Inc.

Fun Fact: Segway polo, a variation of horse polo, became popular among Silicon Valley residents, including Apple's Steve Wozniak.