

WeDo 2.0



education



Lesson: Robotic Arm



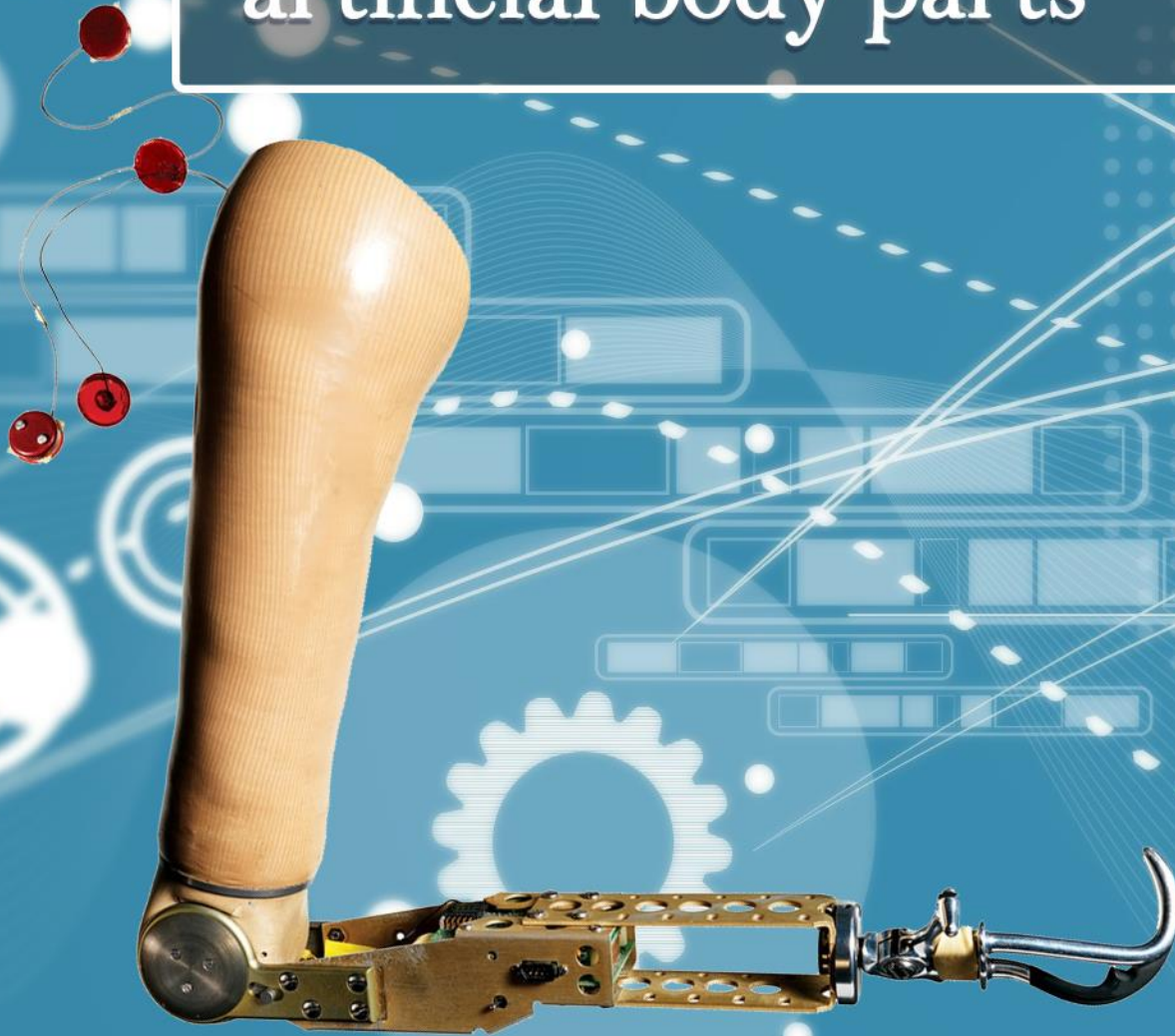
Lego Robotics Arm and Prosthetic Limbs

Ever since he was a kid, David Aguilar was obsessed with Lego. He spent his childhood building cars, planes, helicopters, and eventually, his own prosthetic. Born with a deformed arm, the self-named “Hand Solo” decided to take his Lego-building skills to the next level. At age 18, he perfected his designs with the MK2, a prosthetic arm with the ability to bend and pick up objects with a pincer-like grip. Now, he’s the coolest kid on the block.

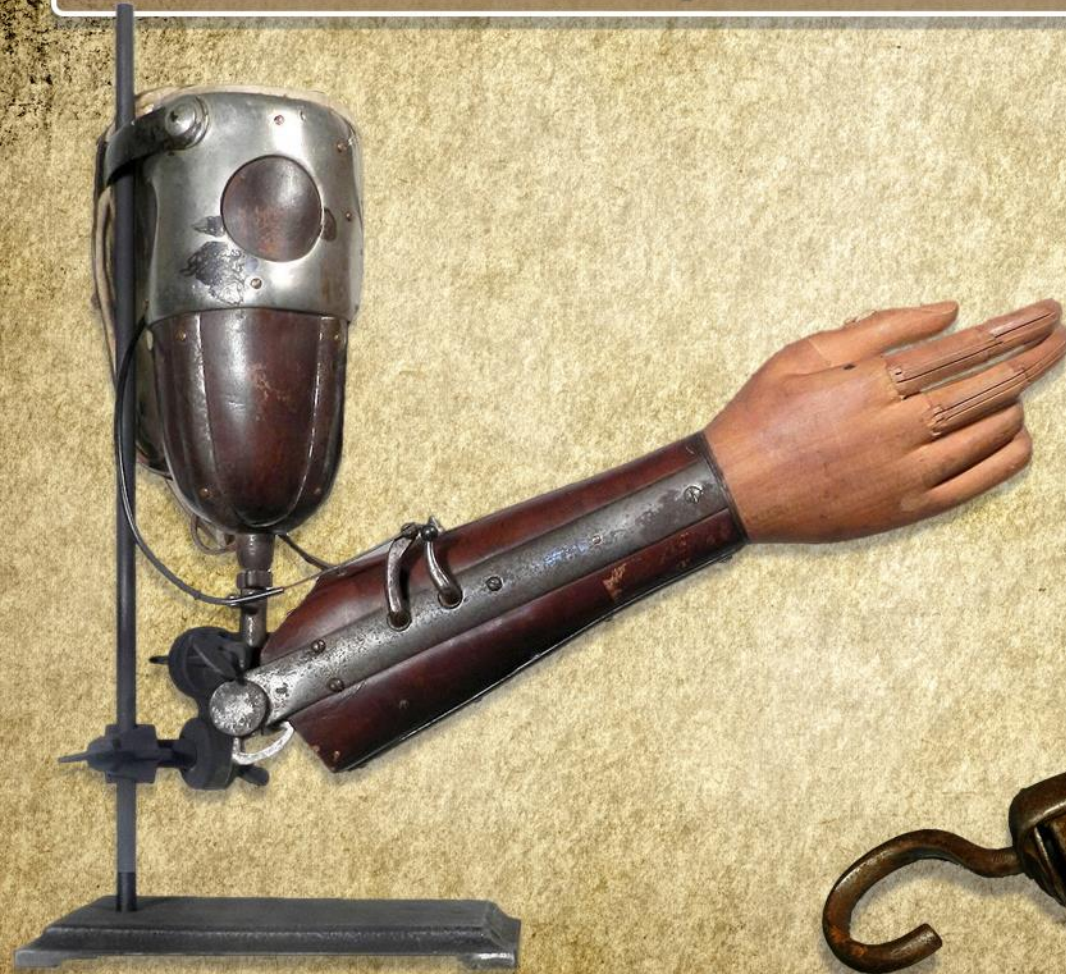


<https://www.youtube.com/watch?v=vFymKqUwodY>

pros·thet·ics
the making and fitting of
artificial body parts



The Egyptians were early pioneers of prosthetic body parts. This toe is a 3,000-year-old wooden prosthesis, which was found attached to a female mummy in an ancient Egyptian grave site. Researchers think the toe is one of the world's oldest prosthetic devices.



Prosthetic limbs have changed very little throughout history. With the exception of very recent times, prosthetic devices have been constructed of basic materials, such as wood and metal, and held to the body with leather attachments.





Now let's watch a modern prosthetic limb that is so incredibly futuristic. It is very cool and more importantly, this technology is helping to better peoples lives.

https://www.youtube.com/watch?v=_qUPnnROxvY

Robotic arm:

A robotic arm is a type of mechanical arm, usually programmable, with similar functions to a human arm; the arm may be the complete total of the machine or may be part of a more complex robot.



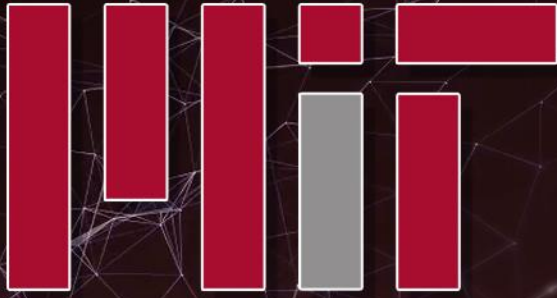
Welcome to the Very Near Future of Robotics

Now let's watch some youtube videos of a very special and real world demonstration of robots in action! These robots were created by DARPA and M.I.T!

<https://www.youtube.com/watch?v=fRj34o4hN4I>

https://www.youtube.com/watch?v=_luhn7TLfWU





Massachusetts Institute of Technology

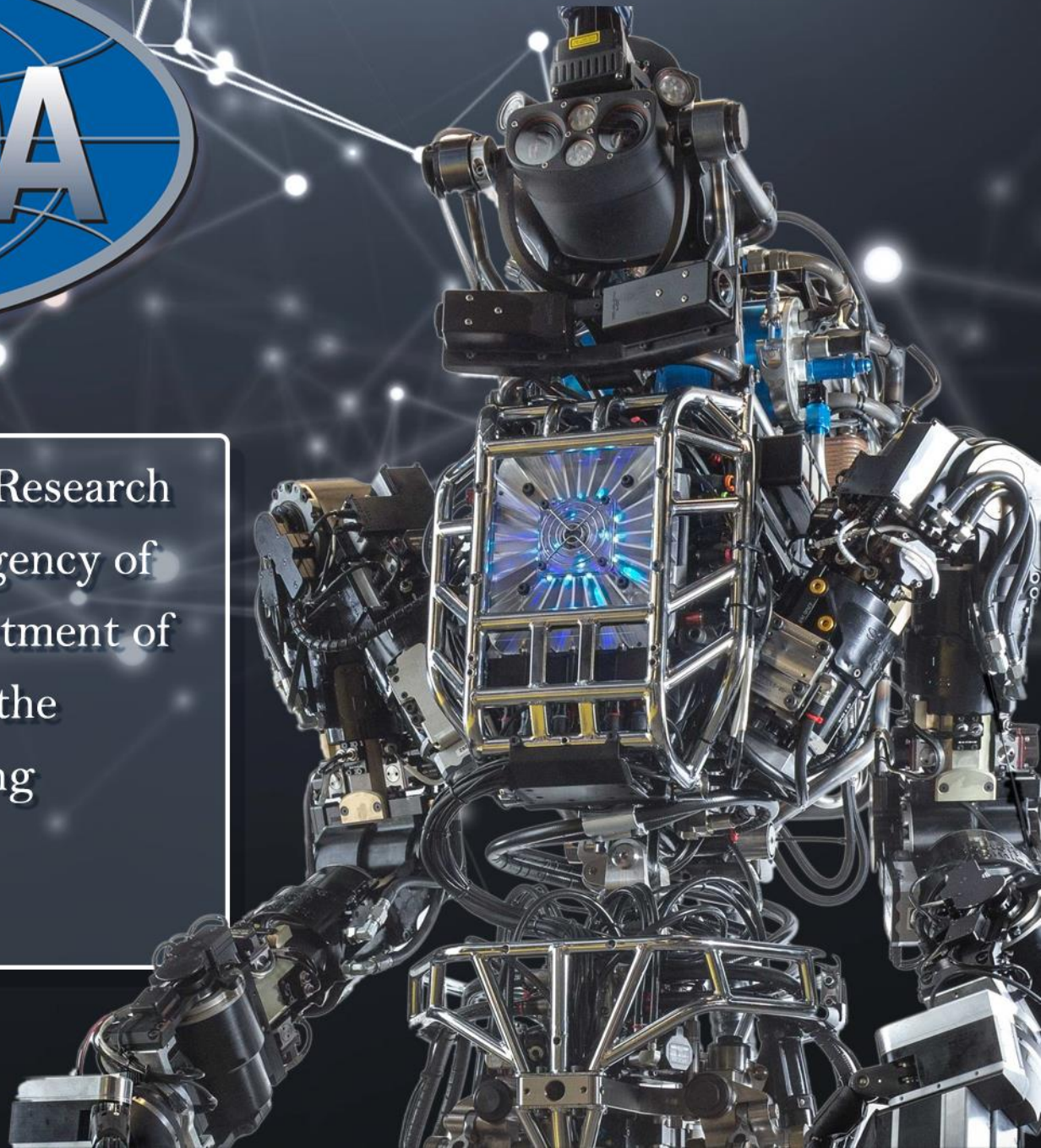
MIT was named as the best university in the world by the annual QS world university rankings. In real life the school has produced some of the world's most brilliant minds. It is in the fields of engineering, mathematics, science and economics it excels.

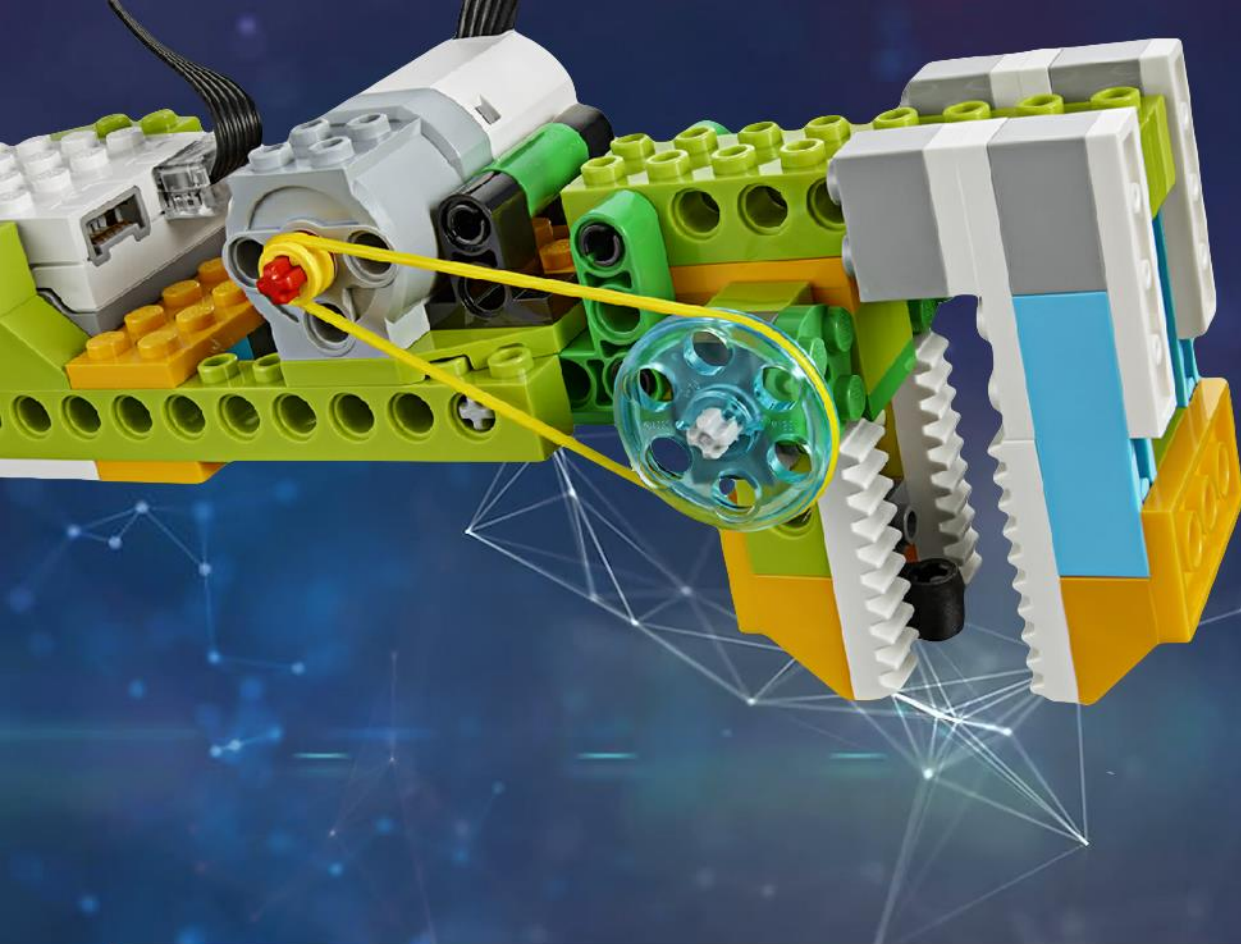
In the Advengers, Tony Stark had attended the renowned M.I.T college. In reality, M.I.T is a leading college in the field of robotics technology. So much so that it works along side with DARPA. So what is this DARPA???





The Defense Advanced Research Projects Agency is an agency of the United States Department of Defense responsible for the development of emerging technologies for use by the military.





Wow... we learned so much about the history, science and facts related to robotics! Now it's time that we finally build our own LEGO Robotics Arm!