

**Title:** ARTIFICIAL LIMBS

**Team Details:**

Name	Hall Ticket No.	Title	Dept.
A.PAUL VINEETH	14K41A0489	ARTIFICIAL LIMBS	ECE
R.VAMSI	14K41A04F9		
G.HARSHIL PATEL	14K41A04D2		
D.SRAVAN RAO	14K41A0493		
M.KARUNAKAR	14K41A0471		

**Community Partner:** Palle Srujana, NGO

**Abstract:**

Amputees often suffer from psychological and physical difficulties due to their inability to use their extremities. To aid the amputees in acquiring a functional replacement hand at a feasible cost, a prototype prosthetic was created utilizing Flexy Hand, a 3D printable hand model, and Arduino, an open source microprocessor. To avoid expensive and frustrating control methods associated with myoelectric prosthetics, an Android smartphone application that allows the user to control through voice commands that person wishes the hand to perform. The phone sends this information to the Arduino, which powers certain servos to actuate each finger individually through commands. The simple construction and low cost of materials, as well as the use of common devices such as smartphones, enables amputees to gain access to new prosthetics with ease.

**Photos:**

