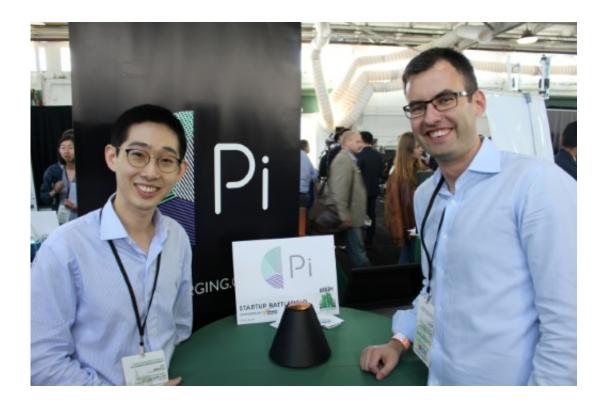


Startup Pi out to slice the charging cord

September 19 2017



Pi co-founders Lixin Shi, left, and John MacDonald tout their invention as the world's first wireless charger that does away with the need to lay devices on charging mats

Silicon Valley youngster Pi on Monday claimed it had developed the world's first wireless charger that does away with cords or mats to charge devices.

Pi chargers, about the size of a small table vase, operate on standard charging technology used in Apple or Android smartphones designed to



be powered up wirelessly.

But instead of cords or mats, the conical creation charges smartphones with <u>magnetic waves</u>.

Magnetic fields are an ideal way to safely send energy to portable electronics, said Pi chief technology officer Lixin Shi, who co-created the charger with John MacDonald.

The trick was bending magnetic waves to find smartphones, the cofounders said during a presentation for an AFP journalist at the TechCrunch Disrupt startup scrum in San Francisco.

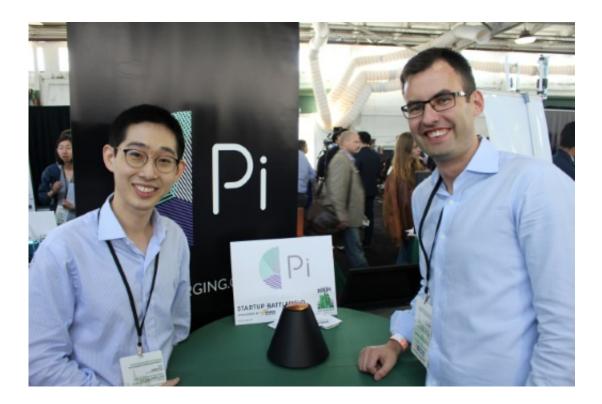
"The hard part was figuring out how to make magnetic charging more flexible, multi-device and extend its useful range," Shi said.

"It took us over a year to complete the mathematical proof that makes it all possible."

The pair figured out how to shape the <u>magnetic field</u> so energy could be beamed to smartphones placed or in use within a foot of a Pi.

Shi and MacDonald were graduate students at the Massachusetts Institute of Technology when they met and began to collaborate on the project about 3.5 years ago. Both have since graduated from university.





A combination of smartphones and tablets could wirelessly charge on a desk if a Pi were placed near people working together, according to its creators

Pi's magnetic fields are relatively weak, far less than the levels used for medical imaging, but allow devices to be charged at "full speed," according to MacDonald.

A combination of smartphones and tablets could wirelessly charge on a desk if a Pi were placed near people working together.

Pi set up shop in the Silicon Valley city of San Bruno, and the cofounders said they raised \$3.5 million in a seed funding round lead by SoftTech VC managing partner Jean-Francois Clavier.

MacDonald promised that Pi devices would begin shipping next year and be priced "well below \$200."



Apple this month unveiled three new iPhone models, including a 10th-anniversary edition iPhone X, all of which featured wireless charging.

The company said it will come to market with AirPower charging mats sized to accommodate an iPhone, Apple Watch and an AirPods earpiece case.

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Citation: Startup Pi out to slice the charging cord (2017, September 19) retrieved 9 April 2024 from https://phys.org/news/2017-09-startup-pi-slice-cord.html

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