



Devicix

Engineering the Future of Medicine

Consumer Medical Product

Case Study

ORTHODONTIC TREATMENT DEVICE

OrthoAccel Technologies was founded as a virtual company to commercialize technology that reduces the time needed to wear braces. The medical product design, based on research by Dr. Jeremy Mao when he was at the University of Chicago, involves application of pulsating forces to teeth.

Devicix was contracted to translate a topic of the university research into a working home healthcare consumer medical product. Clinical units allowed OrthoAccel to conduct clinical trials to demonstrate efficacy. The production version incorporated extensive human factors engineering (HFE) and industrial design to capture clinician needs, and ensure consumer patients were excited to use the device.

Medical product design by Devicix:

- Kick off meeting to CE Mark in 12 months
- Class II medical device
- Complete medical product design history file (DHF)
- Medical electronics and medical device software (ISO 62304)
- Medical device electrical safety testing (IEC 60601)
- Human factors engineering (HFE)
- Medical device contract manufacturing
- Medical product design verification

