Stanford

Edward Chan

Life Science Research Professional 1, Surgery - Plastic and Reconstructive Surgery

Bio

BIO

CURRENT PROJECT

Our team is developing a novel imaging-driven autonomous surgical robotic platform to perform incision-free in-situ tissue editing.

EXPERIENCE

* High-performance ASIC/FPGA design in VHDL/Verilog
* Robust, high-precision control systems for robotic actuation
* Cloud/mobile-based information platforms in Python/NodeJS

AREAS OF INTEREST

* Co-registered MRI/CT with RT visual and ultrasound imaging
* Modeling frameworks for soft tissue deformation
* Level 3 autonomous surgical robotics
* Ultrashort pulse laser tissue ablation
* Wide-spectrum laser imaging