HARDWARE FROM CONCEPT TO COMMERCIALIZATION

Deep Research • Time-Tested Strategy • Thoughtful Design • Systematic Engineering

Product design that ships, for companies building the future of hardware.

Let's Build Together

Flexible Expertise to Solve Your Hardware Challenges

Every company's hardware challenges are unique, but the kind of expertise required to solve them is remarkably consistent: seasoned design and engineering talent that delivers high-quality results and spots and solves problems before they become costly delays.

Most companies face the same dilemma: they need this capability, but don't have the time, budget, or headcount to build it internally. Hiring full-time specialists you might not need long-term isn't the answer.

Partnering with flexible experts is. We provide that flexibility - ensuring you get the right expertise, at the right moment, without the overhead or long-term burden.

THE S●LID DIFFERENCE

EVIDENCE–BASED DEVELOPMENT

Our work is guided by data – from real-world testing and user feedback, not assumptions. We minimize risk by validating key design choices throughout the development process.

SMALL, EXPERT TEAM

We've built a team of senior engineers and designers who have helped scores of clients succeed. Our low overhead, direct access approach lets you work directly with the talent you need to solve problems.

DEEP ENGAGEMENT

We go deep with our projects, understanding before we execute. This ensures that our work is anchored on a foundation of truth and can stand up to heavy scrutiny and real-world testing.

STARTUP DNA

Our fast, agile approach was honed through collaborations with 50+ startups. We're about making maximum impact with minimal overhead and zero corporate bureaucracy.

End-to-End Hardware Product Development

From crafting a comprehensive development strategy to scaling to pilot production and beyond, we provide the complete range of expertise needed to transform your hardware concept into a successful commercial product.

Research & Strategy

Industrial Design

Mechanical Engineering

Electrical Engineering & Embedded Systems Design

Prototyping & Testing

Manufacturing Preparation

Cards flip on click or hover

End-to-End Hardware Product Development

From crafting a comprehensive development strategy to scaling to pilot production and beyond, we provide the complete range of expertise needed to transform your hardware concept into a successful commercial product.

- Market & competition analysis
- Risk identification & prioritization
- Product roadmap development

- Concept generation
- Journey mapping & storyboarding
- Form and CMF development
- Hardware UI/UX design

- Electromechanical system design
- Computer Aided Design
- Part fabrication & prototype assembly

- Electrical system design & part selection
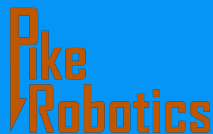- Breadboard prototyping
- Firmware development
- PCB design

- Sourcing & assembly of Alpha & Beta Prototypes
- Test plan development
- Prototype testing & analysis

- Design for manufacturability & assembly
- Supply chain development & management
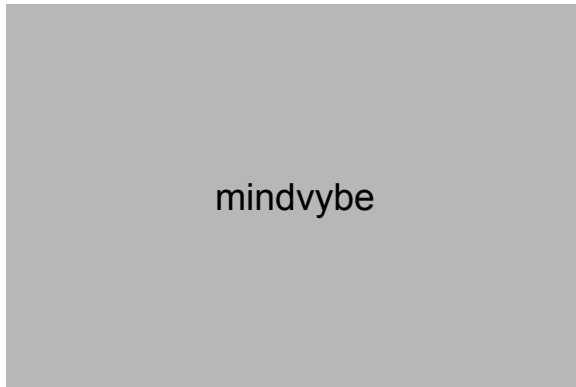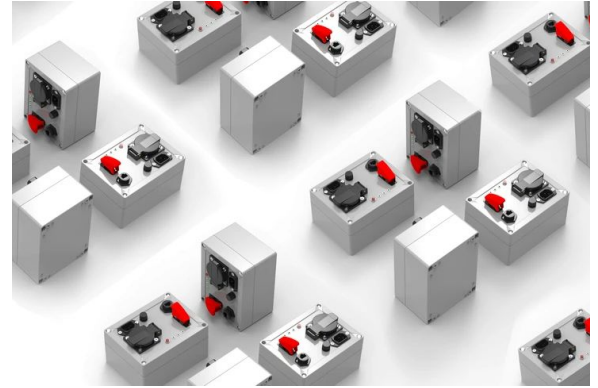- Product certification facilitation
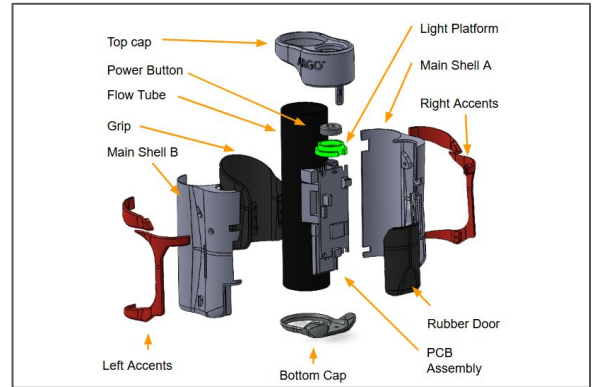
Cards flip on click or hover

OUR CLIENTS

Trusted by innovative companies – from startups to established brands – we partner with clients across industries to de-risk and commercialize breakthrough hardware products.
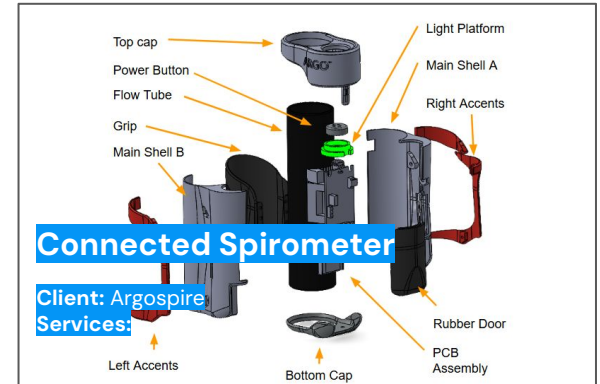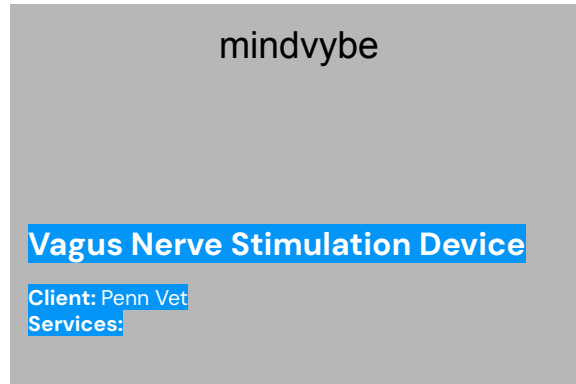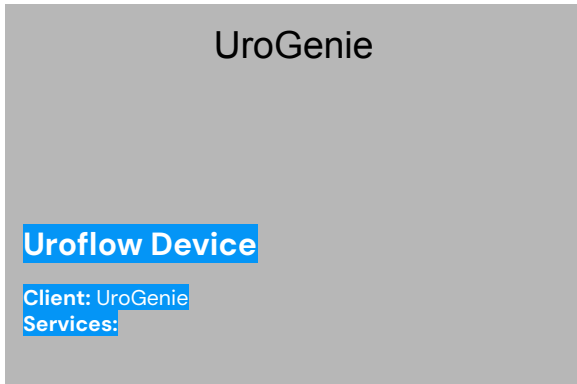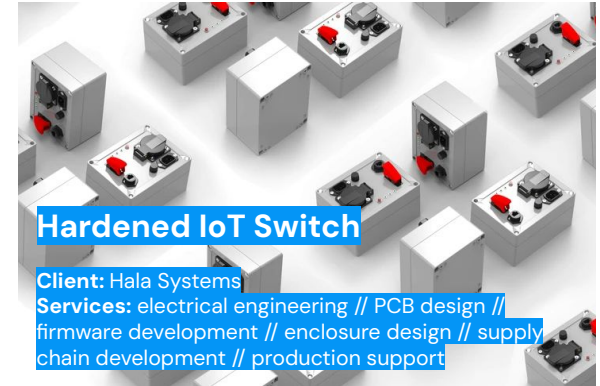
OUR WORK

mindvybe

Top cap
Power Button
Flow Tube
Grip
Main Shell B
Left Accents

Light Platform
Main Shell A
Right Accents

Rubber Door
PCB Assembly
Bottom Cap

OUR WORK

Animal Research Device

Client: Penn Vet
Services: electrical engineering // PCB design // firmware development // enclosure design // pilot production

Stroke Detection Wearable

Client: Neuralert
Services: electrical engineering // concept development // rendering

Hardened IoT Switch

Client: Hala Systems
Services: electrical engineering // PCB design // firmware development // enclosure design // supply chain development // production support

UroGenie

Uroflow Device

Client: UroGenie
Services:

mindvybe

Vagus Nerve Stimulation Device

Client: Penn Vet
Services:

Top cap
Power Button
Flow Tube
Grip
Main Shell B
Light Platform
Main Shell A
Right Accents

Connected Spirometer

Client: Argospire
Services:
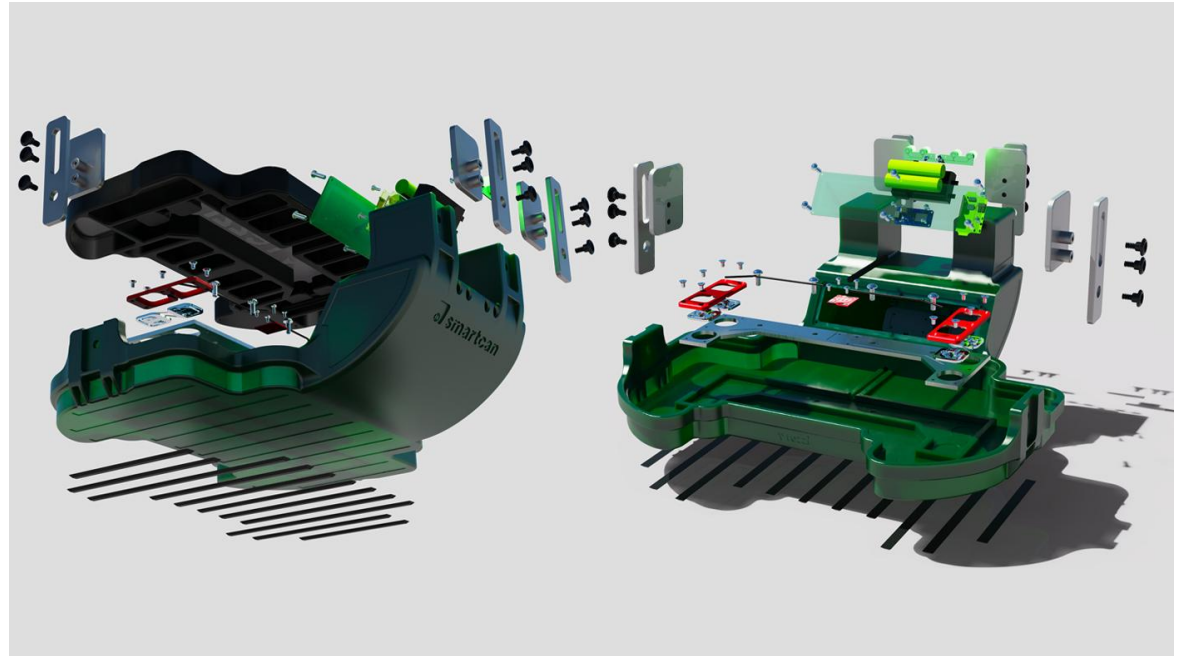
Left Accents
Bottom Cap
Rubber Door
PCB Assembly

LET'S BUILD SOMETHING EXTRAORDINARY TOGETHER

Ready to ship your product?

Schedule a Call   Send a Message

CONTACT

Name

Email

Company

Message

2212 Walnut Street, 1st Floor
Philadelphia, PA 19103

hello@solidpd.com
Schedule a call

Actions to take upon clicking links on the page

Header

- Work -> slide 7
- About -> slide 2
- Services -> slide 4
- Contact -> slide 10
- Labs -> placeholder separate page [or omit if that's better for now]

Slide 9

- Schedule a call -> https://calendar.app.google/8KWMbY5n79jBBe4U9
- Send a message -> slide 10

Slide 10

- Schedule a call -> https://calendar.app.google/8KWMbY5n79jBBe4U9
- LinkedIn icon -> linkedin.com/company/solidpd/

Scratch Pad

BACKUP LOGOS

HUBLY SURGICAL

Maybe
- Penn Medicine?
- CHOP?
- Nemours Children's Health?
- Cooper?
- Comcast
- Emerson

Biomeme

TourStream

PRECISION LIVESTOCK TECHNOLOGIES

PORTABLE DIAGNOSTIC SYSTEMS

agtech LOGIC

PRESSION

INNERSTILL

ARGOSPIRE MEDICAL INC.
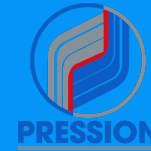
Emphasis on fundraising readiness

    SBIR

    Angel/VC