TRACK SPLIT

AUTOMATED TRACK PRACTIVE TIMINING SYSTEM.





DESIGN BRIEF PRODUCT DEFINITON

THE PROBLEM

In a group practice setting it can be dificult to accurately time everyone. Timing is important because it is the best way to track progess over time.

GOAL

The goal of this project is to create a product that automatically times and documents a group of people practicing on the tack.

PRICE

The target price point is under \$100 for the complete system. Making reasonable for even casual runners,









COMPETATIVE ANYLISIS



	Free Lap	Skilz	VALD	My Laps	JAWKU	Phone
Price	\$2,469.00	\$129.99	\$2000/yr	\$8,787.00	\$200	Free
Multi User	Yes	No	No	Yes	No	No
Technology	BLE	Laser	Laser	RFID	10-15lbs	Camera
Primary Market	Sprinters	Sprinters	Sprinters	Race Events	Agility	Sprinters
Арр	Yes	No	Yes	No	Yes	No
Notes	Leader in the market. Aimed towards sprinters. Also do systems for bikes and other sports.	Cheapest option, but only allows for one user at a time and is only practical for sprints.	Very pricey, subscription based service. More aimed at agility drills.	Very expensive, but offers a lot of good ideas. Very modular system.	Multiple users, small amount of hardware. Gets bad reviews.	Camera used to record, and than splits taken from there

THE TECHNOLOGY USED EXISTING SOLUTIONS ARE EXSPENIVE

Range

Reader Range

Reader Cost

Tag Cost

Phone

Compatibility

Battery life

Ideal for



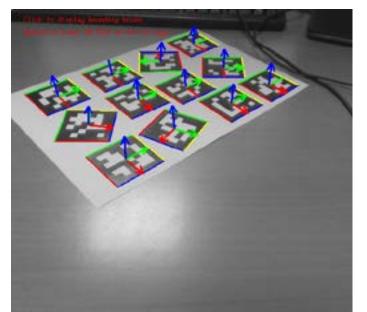


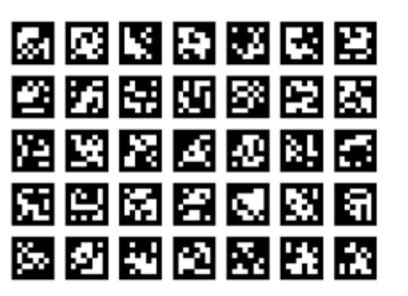


5 - 50 m per reader 20 ft 1 - 5 ft \$1500 - \$2000 \$10 - \$70 \$0.10 \$20 No Yes Longer than our life 2 - 5 years High starting cost but Cheaper starting cost, but adding more users is more cheaper to add more users. expensive than RFID. Large events.

THE TECHNOLOGY A CHEAPER OPTION

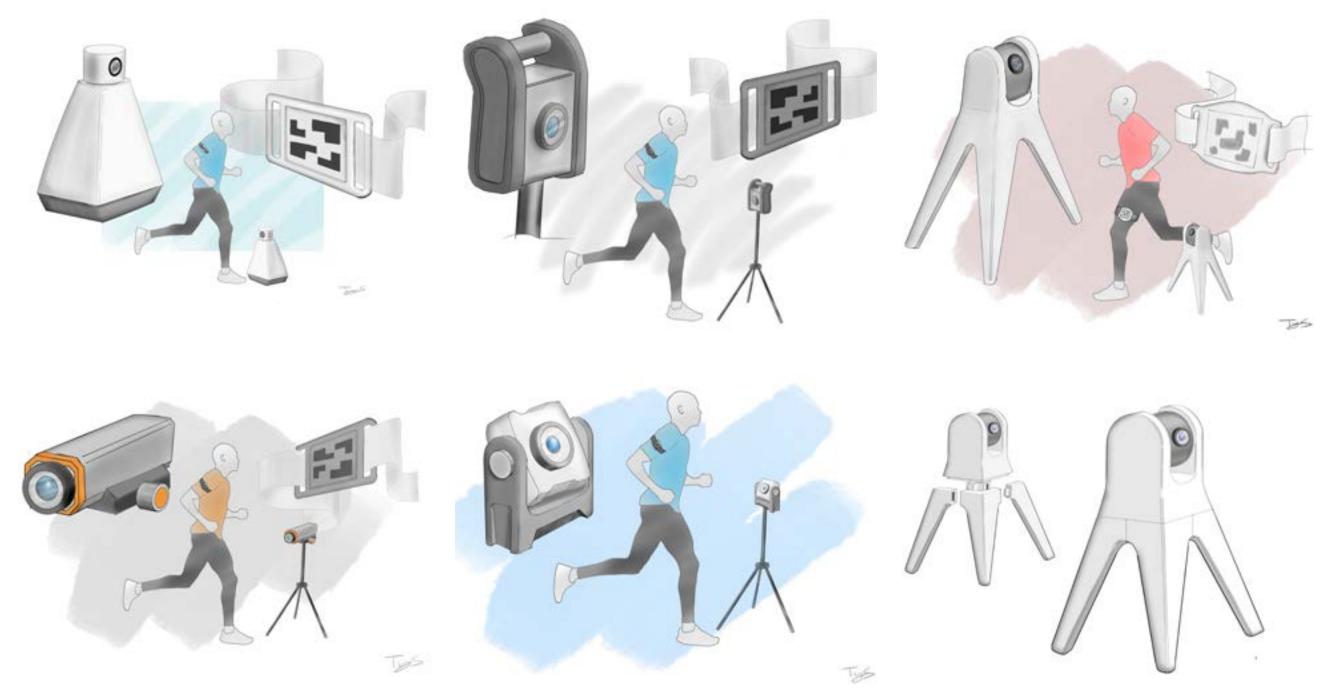




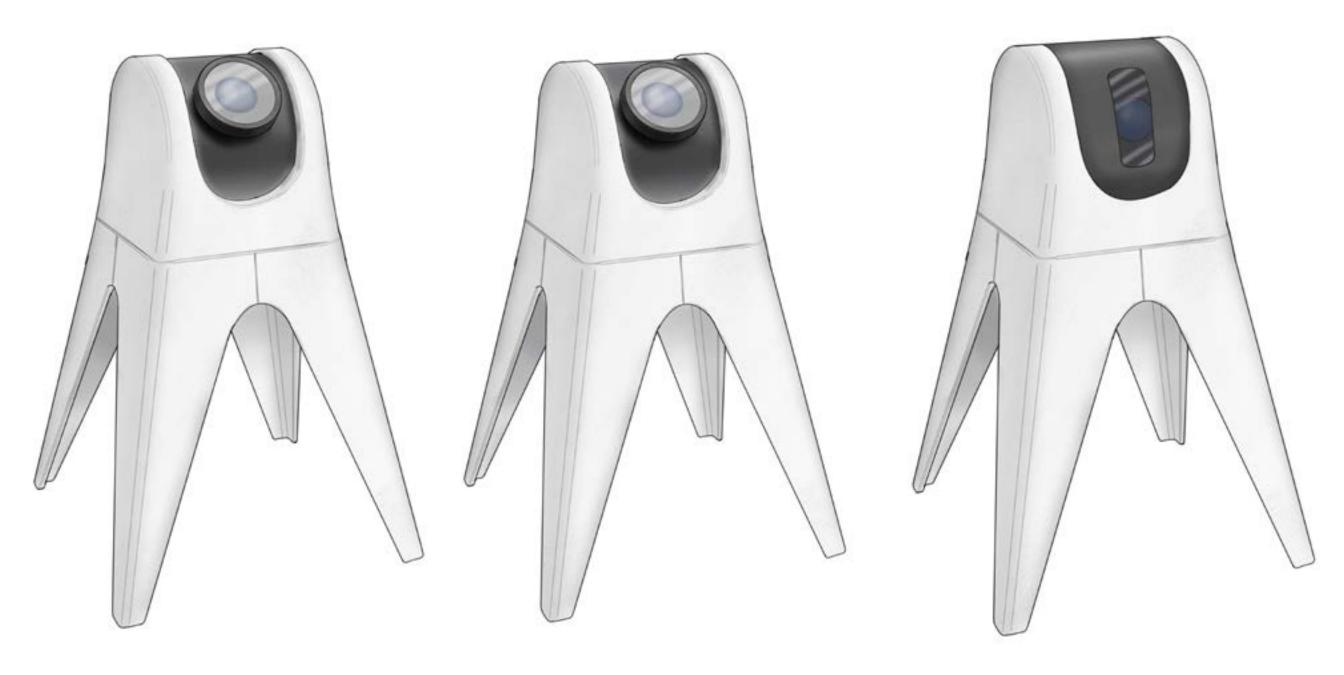




IDEATION



IDEATION



PROTOTYPING



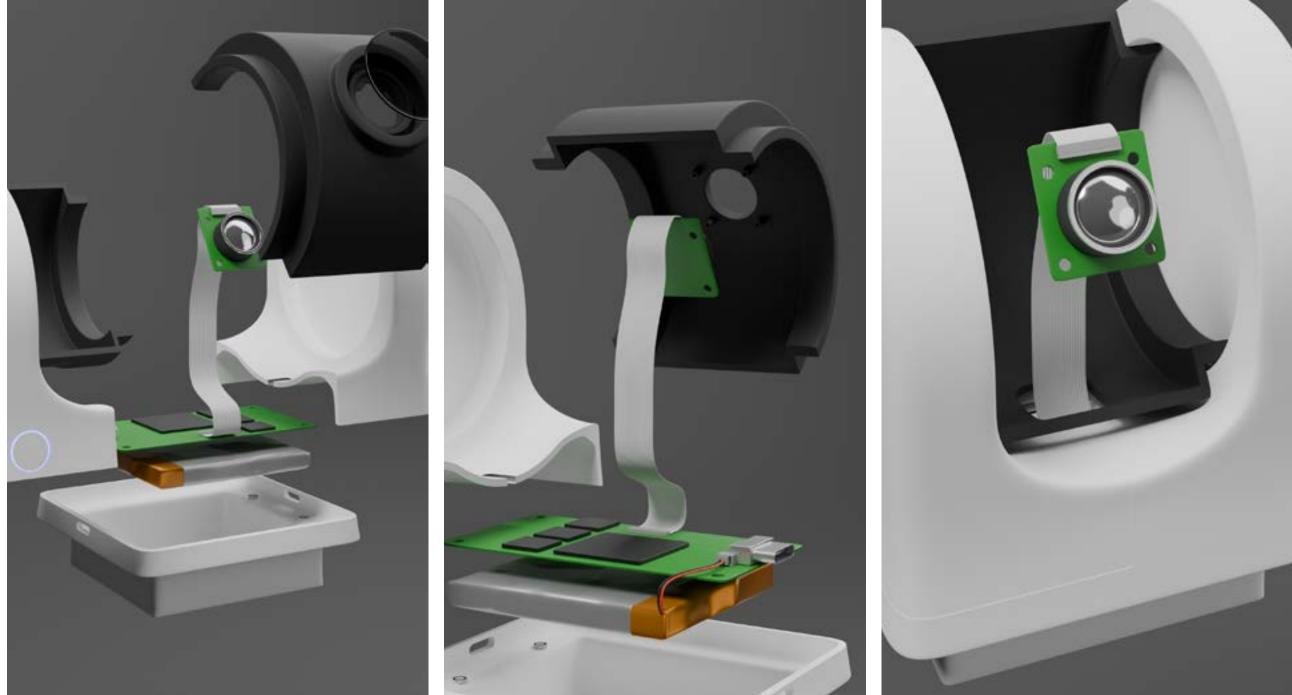
TAG MOUNT



3D MODELING



EXPLODED VEIW



PRODUCT IN USE



