The First 3D Printed Retinoscope

CHRISTIAN CRESPO

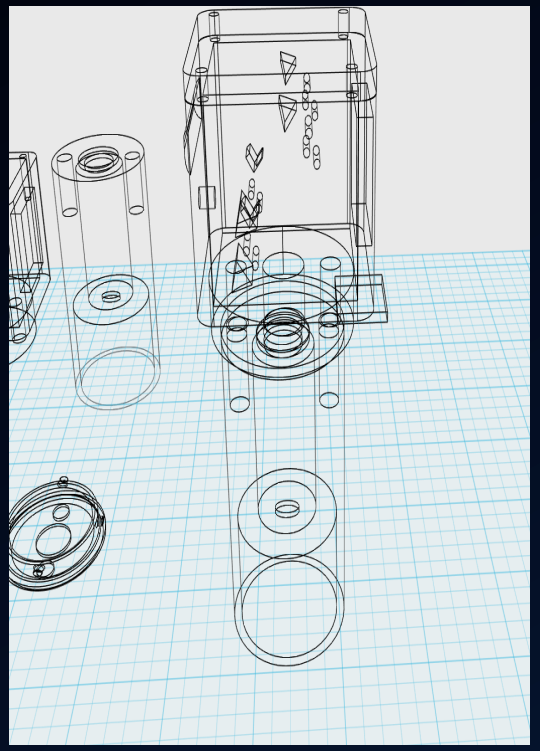
3RD YEAR YEAR DOCTOR OF OPTOMETRY CANDIDATE
SUNY COLLEGE OF OPTOMETRY

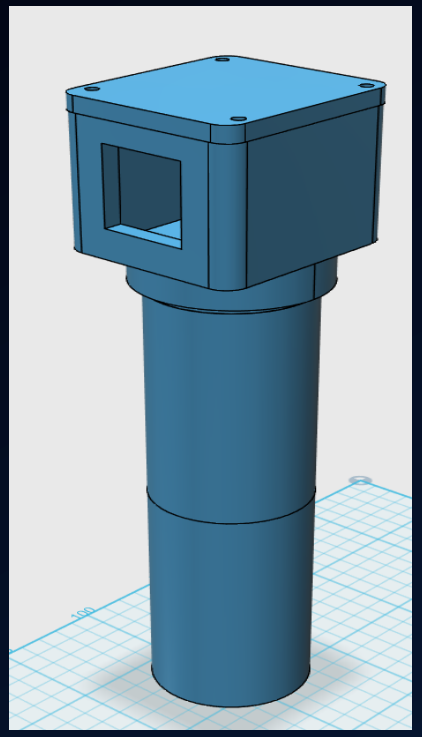
STATE UNIVERSITY OF NEW YORK
COLLEGE OF OPTOMETRY

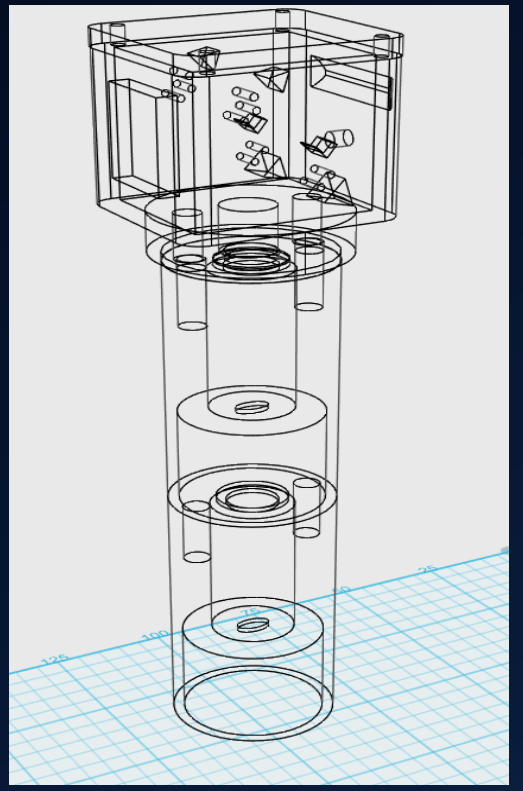
Uncorrected refractive error (URE) is the second leading cause of preventable blindness worldwide [1]

How can we provide adequate, low-cost infrastructure to reduce URE incidence??

My 3D Printed Retinoscope: Auxilium

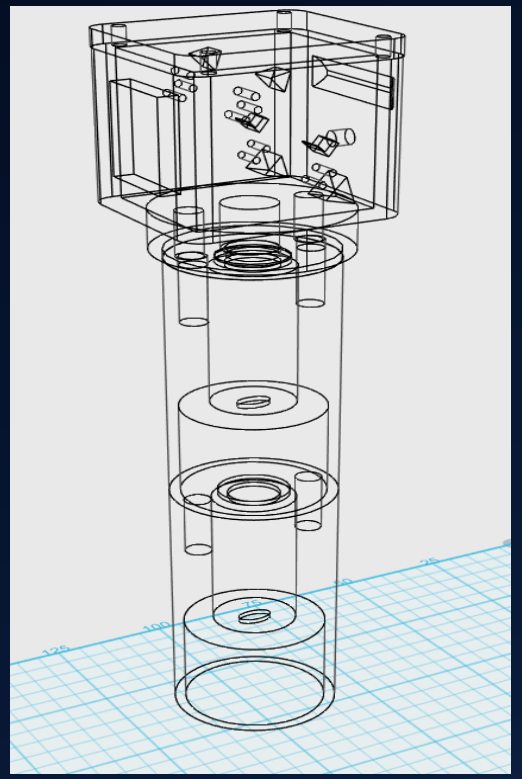






Auxilium Features

- Total material production cost: $25.00
- LED light source
- Rechargeable battery (7 hour battery life)
- Ability to detect Sphero-cylinder RX’es
- Pros of 3D printing technology



Design is More Affordable

Welch Allyn 3.5v Streak Retinoscope with Handle in Case 18242 Free Shipping

★★★★★ 1 product rating

Condition: **New**

Quantity: 1 More than 10 available

Price: **US $405.00**
$37 for 12 months *

Buy It Now

Add to cart

Best Offer:

Make Offer

♡ Add to watch list

Free shipping	30-day returns	Longtime member

Bucks You'll earn **$4.05** in eBay Bucks. See conditions

Shipping: **FREE** Expedited Shipping from outside US | See details
International items may be subject to customs processing and additional charges.
Item location: CHANDIGARH, CHANDIGARH, India
Ships to: Worldwide

What’s Next?

- Changes to current prototype
- Teaming up with charities and humanitarian non-profits
- Distribution
- Training

In Summary…

Optometrists have a role to play in reducing the incidence of refractive error blindness

3D printing technology has a functional application to the field of optometry.

Uncorrected refractive error should not be a barrier to function successfully in society.

Thank You!