

# NEEL KURUPASSERY

Engineer & Researcher // Duke Design Hub  
Autodesk Fusion 360 // Advanced 3-D Printing

@ neel.kurupassery@duke.edu    Innovation Co-Lab    Durham, NC

## EXPERIENCE

### Student Engineer at Duke Design Hub

#### Innovation Co-lab

📅 Fall 2017 – Active    📍 Durham, NC

- Hundreds of custom designs on filament printers; experience with Multijet, Polyjet, and Form2 printers
- Teaching assistant for Autodesk Fusion 360 class
- Designed and Implemented Capillary Bioreactor for Deshusses Lab

### Research Assistant

#### Duke Photoacoustic Laboratory

📅 Spring 2017 – Active    📍 Durham, NC

- Designed, 3-D printed, and implemented ultrasound transducer holders, mouse stereotaxic bases, outlines for tissue phantom creation, and other custom parts, along with traditional imaging research duties
- Collaboration with Duke Medicine
- Collaboration with Mayo Clinic
- Designing new photoacoustic imaging techniques, and implementing with design knowledge

### Mathematics Research

#### Knot Theory and Cryptography

📅 Summer 2017 – Intermittent    📍 Durham, NC

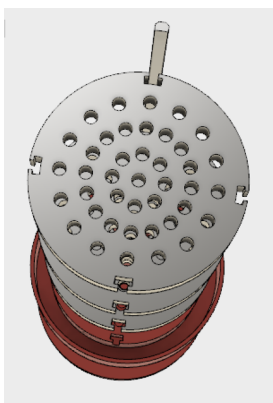
### Biomedical Research

#### Wolf Electrobiolgy Laboratory

📅 Fall 2016 – Intermittent    📍 Durham, NC

- Programming experience that refined technical knowledge
- Solving optimization problems, which is useful in any field

## LATEST DESIGNHUB PROJECT



Capillary Bioreactor

## OTHER BACKGROUND

### Design Courses

I received a 104 on the BME 354 Final Design Project

### Majors/Minor

I dual major in Biomedical Engineering and Mathematics. I also hold a minor in Chemistry.

### Future

I was early accepted into Duke's Master's program, and I plan to finish the masters May 2019.

## STRENGTHS

Quick Responses

Efficient Work and Timing

BME Experience to Understand Applications

## EDUCATION

### M.Eng. in Biomedical Engineering

#### Duke University

📅 2017-2019

### B.S.E in Biomedical Engineering

#### Duke University

📅 2014-2018

### Bachelor of Science in Mathematics

#### Duke University

📅 2014-2018

### Emergency Medical Technician

#### NREMT

📅 2016

📍 #E3268561

## REFERENCES:

- Chip Bobbert, Innovation Co-lab (chip.bobbert@duke.edu)
- Junjie Yao, Photoacoustics Laboratory (junjie.yao@duke.edu)