

# Krishnan Nair

knair@udel.edu | 302-252-1715

## CAREER OBJECTIVE

---

To be able to work as an engineer for a world class organization where my demonstrated skills in programming with biomedical applications, as well as other technical and analytical skills will be greatly challenged in achieving the company's goals and objectives in developing solutions to modern health problems.

## EDUCATION

---

**University of Delaware**, Newark, DE

*Bachelor of Biomedical Engineering, University of Delaware*

GPA: 3.6

December, 2020

## SKILLS

---

- Proficient in Microsoft Office (Word, PowerPoint, Excel), Image J, JMP Pro, SolidWorks and AutoCAD
- Skilled in MatLab, Python, and Java computer programming knowledge
- Intermediate in HTML, CSS, Javascript
- Outstanding analytical and mathematical reasoning skills
- Excellent interpersonal and communication skills

## RELEVANT COURSEWORK AND PROJECTS

---

**BMEG 330**, *Biomedical Instrumentation Lab*

- Designed circuits that amplified or filtered electrophysical signals such as EMGs and ECGs

**BMEG 211**, *Cell Culture Lab*

- Cultured NIH3T3 fibroblast cells, developed in-vitro hydrogels and scaffolds
- Authored technical papers and detailed reports regarding experiments

## PROJECTS

- Coded and designed Twenty-Eight user interface game using Java
- Designed a simulation for HIV drug-therapy using MATLAB.
- Performed poster literature review on instrumented feedback for ACL repair
- Architected nssofpa.org with collaborators using WordPress

## EXPERIENCE

---

**Singh Lab**, Newark, DE, *Undergraduate Researcher*

November 2019 - Present

- Developed model of inhibitory neuronal pathway in the brain using Python
- Built Python simulation of leaky-integrate-and fire circuit using two neurons with stochastic noise and Poisson stimuli

**Fulton Bank**, Newark, DE, *Seasonal Intern*

June 2017-August 2019

- Provided account services to customers, refer customers to financial service products
- Operated Fiserv teller computer program, directed and trained new employees on banking and computer programs

**Manor Pharmacy**, New Castle, DE, *Pharmaceutical Clerk*

May 2015-Jan 2018

- Prepared pharmaceutical records, repaired medical equipment, submitted medical orders, and referred customers to medical devices that suited their needs.

## CAMPUS & VOLUNTEER INVOLVEMENT

---

**Assistive Medical Technology (AMT)**, Newark, DE, Committee Member

September 2019-Present

- Disabilities advocacy group that provides low cost technological solutions to members of the Newark community
- Worked with team in adjusting toy car to accompany growing child with down-syndrome, rewired power controls using circuit components and Arduino, physical modifications using manufacturing machine shop.