

**Ian J. Hinnenkamp**  
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## **SKILLS**

- **Mechanical Design Leader** of TCNJ's **Senior Design Project**
  - Responsible for the fundamental design, 3D modeling, and failure testing regarding the materials and mechanics of a neuro-prosthetic human arm.
  - Familiar w/ the production of Gantt charts, Pareto Charts, & Design Matrices
  - Described as having excellent data management skills, high precision and speed (52 wpm), excellent technological skills, highly organized, open-minded and excellent interpersonal skills, superb written and oral communication skills, goal-oriented with a strong work ethic, and an overall willingness to learn.
- **Trained in Laboratory Operations and Electrospinning Fibrous Cell Scaffolds**
  - Educated and experienced with handling of implantable polymer constructs.
  - Educated with Flow Cytometry and application of various gating parameters regarding the detection of T-cell proliferation in the presence of tumor fragments. (NJIT)
  - Familiar with direct and sandwich ELISA methods and eGFP labeling (TCNJ)
  - Familiar with FACSCalibur in determining cell viability throughout treatment. (NJIT)
  - Experienced with material testing involving Instron tensile testing, FTIR, DSC, and SEM. (NJIT)
  - Received Certificate of Completion in Lean Six Sigma 101 from Lifecell Performance System.
  - Proficient with Graduate-level statistics, Microsoft Office, Matlab, Minitab, Oracle, & Origin.

## **WORK EXPERIENCE**

- **Laboratory Technician at Lifecell/Allergan** Branchburg NJ (July 2016 – Current)
  - Calibrates measurement/recording equipment daily (calipers, drop gauges, 40-ton press, etc).
  - Maintains and inspects the quality of implantable human tissue throughout processing with high regard to the SOP and GMPs of the facility.
  - Transports human tissue product to and from cryopreservation freezers and carries out the tissue thaw process.
  - Reviews batch folders/records for consistency in GDPs and issues noncompliance reports upon detection of errors in both paper and electronic documentation.
  - Carries out tissue decellularization through use of de-epidermal and de-cell tissue wash solutions.
  - Trains new/temporary employees in aseptic processes involving human tissue, recording of measurements from raw to finished product, and reviewing of documentation to mitigate complications between supply and demand.
  - Frequently participates in engineering projects involving the testing of new processing equipment.
- **Laboratory Researcher at NJIT Chen Building** Newark NJ (Dec. 2015 – May 2017)
  - Familiar w/ operating in a clean, sanitary environment
  - Experienced in producing electrospun fibrous cell scaffolds for bone growth.
  - H&E staining regarding cell/protein tracking/labeling
  - Experienced with balancing chemical equations and converting between measuring systems.
  - Regulated Xcellerex bioreactor settings during use to maintain live cell cultures.
- **Administrative Assistant at New Educare Institute of Healthcare** Newark NJ (May 2014 – Aug. 2015)
  - Audits and reviews student records for application processes.

- Responsible for administering and grading physiology/anatomy written exams.
  - Upholds and updates the school's library records, inventory and medical supplies for instructional use.
- **ER-Triage Assistant at New York Downtown Hospital** Manhattan NY (May 2008 – Aug. 2008)
    - Addresses and directs patients throughout the ER-triage area
    - Cleans and prepares operating rooms prior to use and assists medical specialists during operations.

## **EDUCATION**

-New Jersey Institute of Technology (NJIT) (Newark NJ)  
 -M.S. in Biomedical Engineering, Expected: Dec. 2018

Current/Cumulative GPA: 4.0/4.0

-The College of New Jersey (TCNJ) (Ewing NJ)  
 -B.S. in Biomedical Engineering, Received: May 2014

## **HONORS, AWARDS, LEADERSHIP**

- TCNJ Dean's List – Spring: 2010 & 2014
- American Society of Mechanical Engineers TCNJ Chapter Member
- Engineers Without Borders (EWB-USA)
- Passed the Fundamentals of Engineering Exam - April 2014