
ERNEST KABUYE

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EDUCATION	CARNEGIE MELLON UNIVERSITY College Of Engineering Doctor Of Philosophy, Mechanical Engineering, August 2022 <ul style="list-style-type: none">• Awarded: GEM Consortium Fellowship• Selected: GEM University Fellow• Appointment: University Disciplinary Committee and Academic Review Board. University Leadership Student Advisory Council• Member: Black Graduate Student Organization, Graduate Consulting Club (President)	Pittsburgh, PA
	UNIVERSITY OF CHICAGO Booth School of Business Master of Business Administration, August 2021 <ul style="list-style-type: none">• Member: 2021/2022 Admissions Committee Member• Emphases in, Strategy, Finance and Entrepreneurship	Chicago, IL
	TUFTS UNIVERSITY College of Engineering Master of Science, Mechanical Engineering, May 2017	Medford, MA
	NORTHEASTERN UNIVERSITY College Of Engineering Bachelor of Science, Mechanical Engineering, August 2011	Boston, MA
EXPERIENCE		
2015-2018	SMITH & NEPHEW Senior Development Engineer <ul style="list-style-type: none">• Developed over 25 manufacturing and supplier processes for offsite facility preventing back orders and generating savings over \$15M• Led cross collaboration efforts with marketing, engineering, and surgeons to design and develop 5 surgical products that met user needs and manufacturing cost target of under \$25 per part• Reconciled 10 field product issues in manufacturing process preventing the issuance of a global recall for products by the FDA	Andover, MA
2013-2015	INSULET CORPORATION Lead Mechanical Engineer <ul style="list-style-type: none">• Conducted research investigation of 2 medical device parts to ascertain functionality that led to increased market share by over 10%• Performed analysis to assess design feasibility and verified product functionality leading to increased manufacturing production efficiency by over 10%• Initiated and supervised tech transfer of R&D processes for high volume manufacturing of parts and assemblies leading to cost savings over \$5M• Created IP for a combination platform device that drove over 15% market share acquisition	Andover, MA

Ernest Kabuye
BTE Fellowship Application

from a global medical supplier

2012-2013

BECTON, DICKINSON AND COMPANY

Billerica, MA

Mechanical Engineer

- Created and validated over 15 test methods, 25 fixtures and 3 stations for drug delivery systems leading to commercial release of two products in the European market
- Performed detailed design changes to existing product portfolio maintaining 25% market share

ADDITIONAL

- Active Rugby, Soccer Player
- Host of Football Analytics Podcast
- Digital Photography Creative at Reymond Richard Agency

Publications

1. Tracking of Scalpel Motions with an Inertial Measurement Unit System

Ernest Kabuye, Tess Hellebrekers, Justin Bobo, Nolen Keeyes, Carmel Majidi, Jonathan Cagan and Philip LeDuc

IEEE Sensors 2021 Expected

2. The use of mixed reality in User Training outcomes

Ernest Kabuye, Jonathan Cagan, Philip LeDuc

Surgical Innovation 2022 Expected

3. Advances in 3D Bioprinting solutions for tissue constructs

Ernest Kabuye, Jonathan Cagan, Philip LeDuc

Advanced Materials 2022 Expected