AMATHEON BOHAN

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EDUCATION

Georgia Institute of Technology		Atlanta, GA Aug 2017–Dec 2021
Senior GPA: 3.2	Candidate for Bachelor of Science in Mechanic	al Engineering with a Minor in Energy Systems
Georgia Tech Lorraine		Metz, France Aug 2019–Dec 2019
	WORK EXPERIENCE	
R.N.C. Industries, Inc Machine Desig		Atlanta, GA May 2021–July 2021
• Designed machines to automate th	e fabrication of R.N.C.'s packaging insulation inserts	while working directly with the CEO
• Designed, coded, CADed, fabricate	ed, wired, tested, and implemented a computer contra	olled bandsaw now used on warehouse floor
• Coded, CADed, wired, tested, and	implemented a machine designed to fabricate plastic	bags for insulation panels
• Used Raspberry Pi4, Arduino Meg	a 2560, and Arduino Uno as drivers for both machine	es designed
• Manufactured both machines entir Learn3Ride, LLC Contracted Engineer	ely in R.N.C. Industries research and development fa	cility including complete fabrication and wiring Pittsburgh, PA Dec 2019–Jan 2021
	moveable, trailer-based bicycle ramp and release system and release system while consulting a professional	
	version of the bicycle ramp and release system out of	
*	ramp and release system design and utilized the syste	
	n in Solidworks and developed drawings for a patent	0
Woodland Hills Club Assistant Man	ager	Pittsburgh, PA May 2015–Aug 2020
Responsible for opening facility, m Learn3Ride, LLC Senior Instructor	aintaining operational systems, operating pool equip	ment, ensuring a safe environment for patrons Pittsburgh, PA April 2017–Aug 2020
• One of two senior instructors inde	pendently teaching students the mechanics of a bicyc PROJECT'S	cle and how to ride in three structured lessons
Wind Engineering Wind Farm Desig	gn Individual Project	Pittsburgh, PA May 2020–July 2020
• Selected a region in the world with	good wind resources and researched the energy need	ds, sources, and political policy of that region
• Designed a wind turbine specific to	the selected wind farm site and simulated the efficie	ency of the wind turbine using WT_PERF
• Conducted an in depth economic a	nalysis of individual wind turbines and extrapolated	to understand the cost of an entire wind farm
• Assessed precautions to understand	d how to protect the avian and marine wildlife around	d the wind farm site
Fully Automated Mechatronic Robo	t Team Leader	Atlanta, GA Aug 2018–Dec 2018
• Planned and organized robot subsy	stem designs with house of quality, function tree, mo	orph charts, Gantt charts, evaluation matrices
Designed individual robot subsyste	ems and assembled subsystems in Solidworks	
• Coded multiple different code systemeters	ems in LabView to account for varying initial probler	m conditions
• Built and prototyped robot subsyst	ems out of wood and mechatronics using various dri PATENTS	illing and sawing methods
Bohan, Amatheon. 2021. Bicycle Ramp	. Application No. 17/145,450, filed January 11, 2021.	. Patent Pending
	SKILLS	C
Course Concepts: renewable energy sy	ystems, electrochemical storage, environmental design	n, science of alternative energy, Solar PV, fuel
cells, design and manufacture, dynamics	s, statics, kinematics, kinetics, angular and linear mor	nentum, moments, mass moments of inertia,
	s, normal and shear stresses and strains, system dynamics	
	imerical methods, multivariable calculus, linear algebra	
	use of quality, Function tree, specification sheet, mor	
· i ·	reports, executive summaries, accurate to scale hand	drawings, energy policy, conversational French,
CPR certified, AED certified	ABEEA Reproduced Di Ardinica Duthon Chill Er	real Windows Mac OSV myPIO LabView
Mechatronics, WT PERF, MS Office	LAB, FEA, Raspberry Pi, Arduino, Python, C++, Ex	cci, windows, mac OSA, myKIO, Labview,

Instrumentation: Drill press, multimeter, voltmeter, bandsaw, jigsaw, oscilloscope, function generator, mill, lathe, soldering iron, hand drill, hand saw, 3D printer, sander, circular saw

LEADERSHIP/ACTIVITIES

Georgia Tech Tribe Ultimate Frisbee Spirit Captain and Social Chair	Atlanta, GA Aug 2017–Present		
USA Triathlon Self-Trained	Pittsburgh, PA May 2014–Present		
• Qualified for National Championships (2016–2021), World Championships (2017, 2018), and PA State Champion 2019			
American Society of Mechanical Engineers (ASME) Member	Atlanta, GA Aug 2018–Present		
Varsity and Club Swimming Captain	Pittsburgh, PA May 2005–Aug 2017		