Brian Ellsworth

www.linkedin.com/in/brian-ellsworth/

Education	
B.S. Applied Physics — Rutgers University, New Brunswick, New Jersey	(2018)
Departmental Honors, Cum Laude, minor: Computer Science	(2018)
B.S. Electrical & Computer Engineering — Rutgers University, New Brunswick, New Jersey	(2018)
Honors, Cum Laude	(2010)
Work Experience	(7/2024
	(7/2021 – present)
 Writes C/C++ code for microcontroller-based printed circuit boards 	
Writes Python and Bash scripts	
 Troubleshooting printed circuit boards using electrical test equipment 	
Leads product development of embedded products	
 Prototypes parts and assemblies using CAD models, FDM, and resin printing 	
 Generates and maintains product documentation 	
 Develops and updates manufacturing and test procedures 	
 Ensures project completion within budget, quality, and contractual constraints 	
Project Engineer — Everson Tesla Inc., Nazareth, Pennsylvania	(6/2018 – 2/2020)
 Assumed full responsibility for the manufacturing of electromechanical products 	
while meeting requirement, budget, schedule, and quality constraints	
 Created and maintained documentation for each project, including project schedules, 	
price quotations, bills of materials (BOMs), manufacturing procedure outlines (MPOs),	
data travelers, and quality assurance requirements	
 Tested products for electrical and geometrical conformance 	
 Integrated project tasks by working directly with customers, suppliers, procurements, 	
CAD engineers, manufacturing technicians, and quality assurance	
Oversaw technicians and machinists to complete essential project operations	
Communicated with suppliers and customers to meet project requirements	(5/2017 - 5/2010)
0 1, 1, 1	(6/2017 – 5/2018)
Increased by an order of magnitude the diameter of monocrystalline graphene grown	
in a chemical vapor deposition system via electrochemical polishing	
Volunteer Experience	
Executive Board Member — Society of Physics Students, New Brunswick, New Jersey	(9/2017 - 5/2018)
 Coordinated and executed events with undergraduate students and physics faculty 	
Awards	
Eagle Scout — Boy Scouts of America, Middletown, New Jersey	(2013)
International Baccalaureate Diploma — IB Diploma Programme, Freehold, New Jersey	(2013)
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Skille	

- C/C++ programming in VSCode
- Python programming
- Schedule creation using Microsoft Project
- Microsoft Office: Excel, Word, PowerPoint, Visio
- Data analysis using spreadsheets, Python, SQL
- Windows XP, 7, 10, 11 and Linux OS
- Complexity analysis of algorithms and data structures
- Git and Github for version control
- Bash and PowerShell scripting

- Electronics testing using test equipment
- Electrical testing per MIL-STD specifications
- PCB design and component selection
- SolidWorks for CAD modeling
- Iterative prototyping
- Maintaining project documentation
- Database interaction via ERP software and SQL
- Familiarity with manufacturing methods
- **Electrical soldering**