

DAVID S. HURT

PERSONAL DATA

DATE & POB: 29 July 1993 | Baltimore, Maryland
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WORK EXPERIENCE

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| NOV 2017-
PRESENT | Aquion Energy, LLC
Process Engineer for Active Materials | Pittsburgh, PA |
| <p>Transitioned to position of process engineer of pilot operations, to transfer R&D understanding of Aquion's active materials to guide and inform the manufacturing team setting up our new facility in China. Currently working on documentation and experimenting with pilot operations in Pittsburgh, and plan to relocate to China in 2018 to ensure communication between departments during stand-up and engineering of systems at new facility.</p> | | |
| JUNE 2016-
OCT 2017 | Aquion Energy, Inc.
Test Engineer for Research and Development | Pittsburgh, PA |
| <p>Organizing and operating testing equipment (Maccor, MTI, Arbin) for Research and Development department. Working in Matlab to process data for wide variety of experiments, from product development to material research. Personal projects include prototyping company's first simulations model, combining empirical data with electrochemical principals to assess battery fade mechanisms. Managed test and data resources on Aquion's restructuring team, until acquisition in Summer 2017.</p> | | |
| MAY 2015-
MAY 2016 | Lockheed Martin: Advanced Energy Storage
Chemical Engineering Co-op and Contractor, Test Team | Cambridge MA |
| <p>Operated test stacks for high energy flow battery operation, working to scale up novel membranes and electrolytes from the lab to a functional product. Analyzed data from long-scale durability testing using Python and Excel/VBA. As personal project, worked to develop an optical probe for in-situ measurement of battery's state of charge.</p> | | |
| JUL-DEC
2014 | DANA Victor Reinz
Technical Practicum: Primer Development | Ulm, Germany |
| <p>Worked as a developer for engine gasket primer chemistry and application technique. Characterized a wide variety of commercially available silane primers for application in bonding gasket rubber to steel plates. Drafted experimental protocol for international research teams in the Germany, Japan, and the USA for applying primers in the lab to accurately reflect results from industrial processes. Regularly presented to department in both German and English, and communicated with international research teams.</p> | | |
| JUL-DEC
2013 | INFINIUM Metals
Chemical Engineering Co-op, Anode Team | Natick, MA |
| <p>Performed chemical compatibility testing and analysis on materials for novel electrowinning processes. Ran SEM, EDX, and XRD analysis to study salt-ceramic interface corrosion, metal-ceramic interface migration, and ceramic microstructure and calcination.</p> | | |
| SEP 2010 -
MAY 2011 | Kibart Consulting Engineers
After-School Engineering Intern | Towson, MD |
| <p>Edited heating, ventilation, air conditioning and plumbing designs for biotech research facility using AutoCAD:MEP. Learned protocol for LEED certification, and contributed towards LEED Gold certified construction of Wake Forest Biotech Place in NC.</p> | | |

EDUCATION

MAY 2016 | Bachelor of Science Degree in CHEMICAL ENGINEERING and PHYSICS
Northeastern University, Boston MA
Extracurricular Coursework: Environmental Science, Intermediate German, Solar Thermal Engineering, Process Controls
Titles and Achievements: President of AIChE student chapter; Captain of ChemE-Car team, Dean's scholarship
GPA: 3.32 / 4.00

ORGANIZATIONAL AFFILIATIONS

2015- | Project Manager with **Therapeutic Innovations** Boston, MA
2016 | Designing heat transfer, gas mixing, and humidification system for innovative neonatal bubble-CPAP. Design focuses on durability and low cost, to produce a product for deployment in the developing world.

2011- | Past President and ChemE Car Captain for **NU AIChE** Boston, MA
2016 | Captain of ChemE Car Team, the official student competition for AIChE, the American Institute of Chemical Engineers. Was President of chapter in Spring of 2015, and Professional chair in Fall of 2015, helping plan and execute the semester co-op mixer and career fair. Held the 2015 Northeast regional student conference as a joint event between NEU and MIT chapters of AIChE.

2010- | Eagle Scout and Instructor with **Boy Scouts of America** Baltimore, MD
PRESENT | Eagle Scout earned with Troop 742 in Baltimore MD in October 2010, after leading an Eagle Scout Project to build Beehives for First Fruits Farm, who donate their harvest to food shelters in Baltimore City. Worked for Broad Creek Scout camp for 5 summers teaching merit badge courses, including first aid and wilderness survival. Currently a registered assistant scoutmaster for troop 742.

PRESENTED RESEARCH POSTERS

- [1] **David Hurt**, Christopher Puzzo, Daniel Ventre, Dana Levin, Haotian Zhao, and Solomon Mensah. *Therapeutic Innovations: Re-Examining the Design of the Neonatal Bubble-CPAP for Application in the Developing World*. Student Poster Sessions, 2015 AIChE National Student Conference, Salt Lake City, UT.
- [2] Daniel Accetta, Yang Lin, Liah Dukaye, **David Hurt**, Christopher Marsh, Michael Lanzilloti, Christopher Cogswell and Sunho Choi. *Amine Loaded Pillared MCM-36 As a Platform for CO₂ Capture*. Student Poster Sessions, 2015 AIChE National Student Conference, Salt Lake City, UT.

TECHNICAL SKILLS

Computer Skills: Excel/vba, Kaleidagraph, MATLAB / Simulink, Python, \LaTeX , LabView
Process Skills: FMEA and HAZOP documentation, P&ID and Controls, Scale Modeling
Lab and Analytical Skills: SEM, EDX, XRD, UV-Vis Spectroscopy
Languages: Native English, Working German, Basic Spanish

INTERESTS AND ACTIVITIES

Physical Activities: Épée and Sabre Fencing, Sailing, Camping
Leisure Activities: Travel, Cooking, Homebrewing