

Ryan Hobbs

ryan.hobbs100@gmail.com

602-653-1000 Direct



Summary

Sustainability Professional with over 17 years of extensive experience in electric transportation and energy storage. Proven ability to develop a strategy and achieve goals through development of programs and policies expanding the electric vehicle charging network and storage solutions.

Willing to relocate: Anywhere

Authorized to work in the US for any employer

Work Experience

Global Supply Chain Manager - Batteries and High Voltage Powertrain

Nikola Motor Inc. - Electric Vehicle OEM

April 2021 to Present

- Started new global supply chain for battery manufacturing in California with Nikola partners to localize critical components to the vehicle powertrain chassis for production and servicing.
- Reduced the lead times for high voltage components by 6 months during extreme period of globalized Force Majeure difficulties.
- Formed a reliable supply chain team that tracked and confirmed parts from design to final installation on Nikola trucks and provided transparent accountability for all stages of production.
- Managed global supply of raw materials and finished goods, including over 200 suppliers, 30 manufacturing facilities, and 10,000 qualified suppliers.

Renewable Energy Consultant

Energy Flux LLC - Applied Research and Development of Circular Energy Systems

Tempe, AZ 2015 to April 2021

- Professional consultant for renewable energy investments and ventures over \$100K in CapEx. • Delivered reports for corporate sustainability audits under current Global Reporting Initiative (GRI) guidelines for clients in public and private utilities.
- Formed teams that created the business case for green initiatives by leveraging the value of carbon market exchanges within the European Union.
- Worked with local civil engineering firms to develop charging infrastructure and energy efficiency systems for the city of Tempe, Arizona.

Chief Sustainability Officer

ECotality Inc - Electric Transportation and Storage Technologies Company

San Francisco, CA 2010 to April 2015

- Oversaw and implemented \$42 million project to increase the Environmental Return On Investment (EROI) by replacing the mining purchases of rare earth elements with reclaimed materials at reduced cost.
- Worked with engineering teams to develop and commission solar charging stations to support 10,000 Tesla drivers in Arizona, Las Vegas, and Southern California.
- Created a US based global environmental Sustainability program that is currently saving \$6.5M/year in cost of goods sold, \$2M in government subsidies for grid-leveling electric vehicle charging stations.

Project Manager - Carbon Capture Biofuels

Arizona Public Service Inc - Public Electric Power Utility
Tonopah, AZ 2007 to March 2010

- Project manager for government contracts with Dept of Energy, from concept bench proposal to phase II scale-up of operations at a public utility power plant. Project scope budgeted costs and benefits of complete systems cycle approach to carbon capture, coal-->Syngas, water recycling systems, soil replenishment for agricultural food supply and biofuels; 10-acre production facilities installed on coal and natural gas power plants.
- Employed a global team of experts to find economically viable scale-up solutions. Trained team of technical staff at Nobel-prize winning IGV-GmbH Algae Production facilities in Potsdam, Germany to manage scale-up operations.
- Organized data collection and cost analysis for weekly reports, presented in meetings with APS Biofuels, Dept. of Energy, and the National Energy Technology Laboratory (NETL).
- Led the design and installation of the bench scale bioreactor demonstration, proposed construction, team, and operations for 500MW coal power station reducing carbon emissions.
- Delivered public reports for the Dept of Energy (DOE), supporting standards of OSHA, Environmental Protection Agency (EPA), the Global Reporting Initiative (GRI), and the California Air Resources Board (CARB), and protocols of national security.
- Assisted in the development of new business model for bio-based carbon capture and utilization for the biofuels industry, utilizing information collected in the field.

Electric Vehicle Test Engineer

Electric Transportation Engineering Corporation (ETEC) - Electric Vehicle Engineering and Development
Monrovia, CA 1998 to Mar 2007

- Energy efficiency tester for advanced electric vehicles and alternative renewable hydrogen station for renewable fuel vehicles, class 8 hybrid vehicles.
- Completed over 11,000 successful refueling events; for Hydrogen engine vehicles, Hydrogen refueling systems, and Hydrogen fueled generators
- Performed efficiency modeling for Steam-Methane-Reformers (SMRs), alternative CNG/H2 mixers, and hydro gasification reactors.
- Tested first Hydrogen fuel cells for the National Energy Technology Laboratory, at 37% efficiency.
- Performed over 200,000 miles of road tests on Electric vehicles for research and development, • Assisted in the development of the first Formula e- race cars, including pit team work at racing events.
- Regularly performed internal combustion engine maintenance, design, and modification to support hydrogen mixed fuel system injection.

Education

Master of Global Management

Startups in Emerging and Developed Economies - Minor

Thunderbird American Graduate School of International Business - Tempe, AZ 2018

Bachelor of Business, Sustainability

Global Supply Chain Sustainability - Minor

Arizona State University - Tempe, AZ 2017

Associate of Science

Environmental Microbiology - Minor

Phoenix College - Phoenix, AZ 2014

Bachelor of Civil Engineering

University of Bahamas - Nassau, Bahamas 2004

Patents

- Serial Port Multi Vehicle Quick Charge Station Patent: US 8,981,718 B2 Mar. 17, 2015
- Hydrogasification Reactor and Method of Operation Patent: US 8,529,645 B2 Sep. 10, 2013
- Bioreactor for Cultivating Photosynthetic Cyanobacteria Pub.: US 2012/0115210 A1 May 10, 2012

Links

<https://elliottthobbs.com>

<https://www.linkedin.com/in/elliottthobbs/>

Volunteering/Board Memberships

<i>VR Producer</i>	Glitterhorne VR Productions	2018 to Present
<i>Aerial acrobatics coach</i>	Dance Connection 2 and Royal Dance Works	2012 to Present
<i>1st Thunderbird Chairman</i>	ASU Graduate and Professional Student Assn.	2018
<i>Entrepreneurship Catalyst</i>	Arizona State University E + I	2017 to 2019
<i>Volunteer</i>	GreenBiz Inc.	2015 to 2017

Areas of Expertise

International Development. Cross Cultural Communication. Team Building. Negotiations. Circular Supply Chains. Coastal Systems. Sustainability Carbon Footprint Analysis. Blockchain Integration. AWS Integration. Change Management. Scaling Operations. LEED Standards. OSHA Standards. Agile Processes. Project Management. Lean Traction. Kaizen. Scrum Master. Automation. IoT integration. Change management. Industry 4.0. Robotics. Automotive Racing. Civil Engineering. Infrastructure Development. Venture Capital and fundraising. Coaching. MS Office, Excel, Adobe CC, Slack, JIRA, Trello, Tableau, SketchUp, G suite.

Areas of Personal Development

US National Gymnastics Team, Olympic Trials, Coach all ages. 15+ years Southwest Kumite Champion, martial artist. 15+ years Performing dancer and acrobat for Cirque du Soleil. 5+ years Fictional Writing, <https://megafiction.wordpress.com> 9+ years Personal Website, <https://elliottthobbs.com> Real estate investment and management 12+ years