LITHIUM-ION BATTERY RECYCLING PRIZE



U.S. DEPARTMENT OF ENERGY

Team Name: Li Industries

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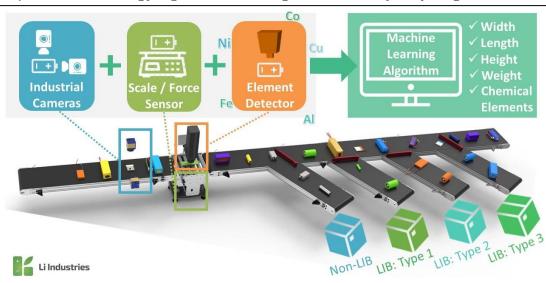
Member Names: David Young; Zheng Li; Li Industries, Inc.

Submission Title: Smart Battery Sorting System

Submission Track: Separation and Sorting

Abstract:

Existing sorting technologies have limited ability to sort lithium-ion batteries (LIBs) based on their constituent materials, and manual sorting processes are costly. Our Smart Battery Sorting System automates battery sorting by utilizing machine learning coupled with inline physical and chemical property measurements and is capable of separating LIBs by their constituent materials. End of life LIBs sorted this way can be fed into direct recycling process that produce rejuvenated battery materials more cheaply and efficiently, which will be central to the Department of Energy's goal of achieving a 90% battery recycling rate.



Lithium-Ion Battery Recycling Prize