CSUCI: Mechatronics Engineering

Jason Isaacs

October 14, 2022

Introduction and Agenda

- Introduce the Mechatronics Engineering Faculty at CSUCI
- What is Mechatronics Engineering?
- Why Mechatronics Engineering?
- Current Curriculum
- Discussion
 - How can we work together to create a strong pipeline?

Mechatronics Engineering Faculty



Bahareh Abbasi



Vida Vakilian



Scott Feister



Jason Isaacs



Brian Rasnow

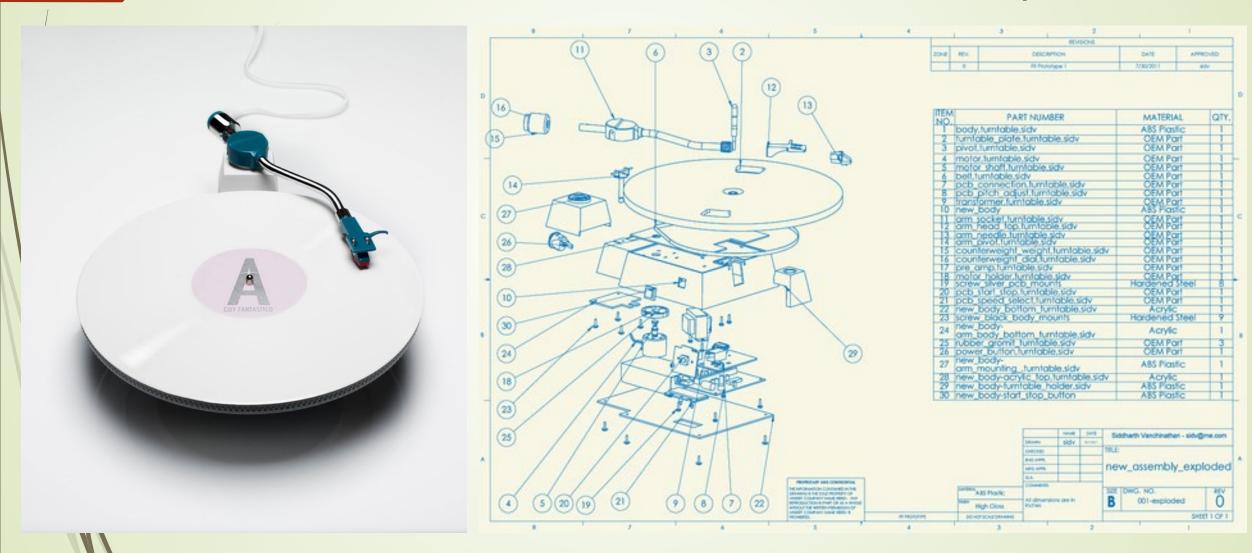


Scarlet Relle



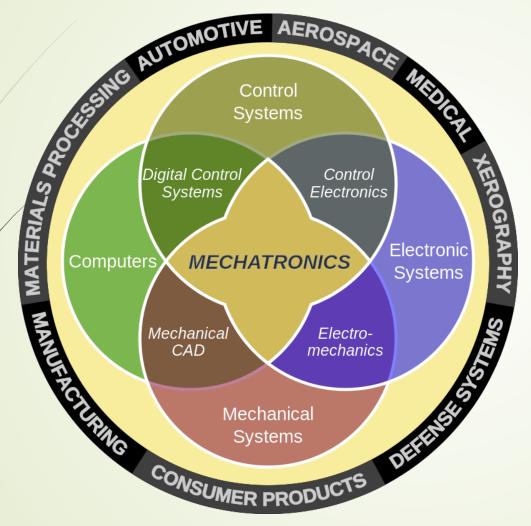
Kurt Zierhut

Classic Turntable: Mechatronic System



[http://techcracks.com]

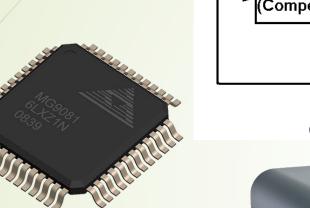
What is Mechatronics Engineering?

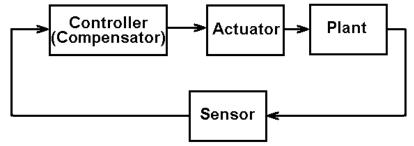


[Kevin Craig: Hofstra University]

- Mechatronics is multidisciplinary systems engineering for the 21st century.
- Mechatronics integrates at the beginning of the conceptual design stage different technologies
 - Mechanical Systems
 - Electrical Systems
 - Control Systems
 - Computer Systems

My experience as a mechatronics eng.





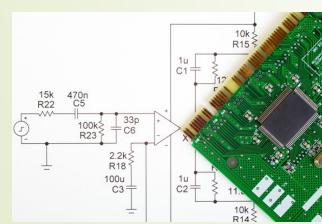
Control Systems Design



Firmware Design



Mechanical Design



ASIC Design

Electronics Design

Why Mechatronics Engineering?

- Jobs are available and high paying.
- Mechatronics technologies are driving economy.
 - Self Driving Cars
 - Unmanned Aerial Vehicles
 - Industrial and Agricultural Automation







Curriculum Info

https://compsci.csuci.edu/degrees/bsme/bs-me-courses.htm

Discussion

How can we work together to create a strong pipeline?



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Questions?

https://compsci.csuci.edu/degrees/bsme/

