2023 TIP Winner
(Re)Politicizing Engineering Knowledge Through Racism-Conscious Engineering Instruction

James Holly, Jr.
Mechanical Engineering
Motivation for the Project

“At the most basic level, engineering students and practitioners will only be motivated to consider social justice issues to the extent that they recognize such issues as relevant to engineering practice.” (Cech, 2013, p. 68)

Enriching Scholarship, May 2023

DISABUSING IDEOLOGY: OBJECTIVITY

“Think of yourself, Black creator, freed of European restraint which first means the restraint of the self determined mind.

Machines have the morality of their inventors...new technology must be spiritually oriented because it must aspire to raise man’s spirituality and expand man’s consciousness. It must begin by being “humanistic” though the white boy has yet to achieve this. Witness technology that kills both plants & animals, poisons the air & degenerates or enslaves us.”

Amiri Baraka, Raise, Race, Rays, Raze, 1972
What is the project?

- Elevating Black Intellectuals
- Exposing Politics of Engineering Knowledge
- Socially-Engaged Curricular Materials
- Alternative Forms of Assessment
Outcomes

1. Cognitive Dissonance
2. Reflexive Thinking
3. Co-learning through Discourse