

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

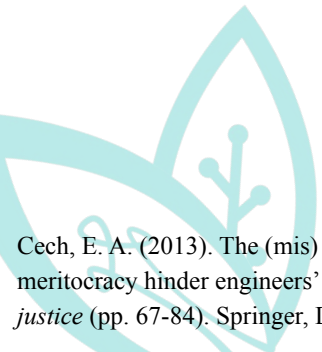
James Holly, Jr.

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)

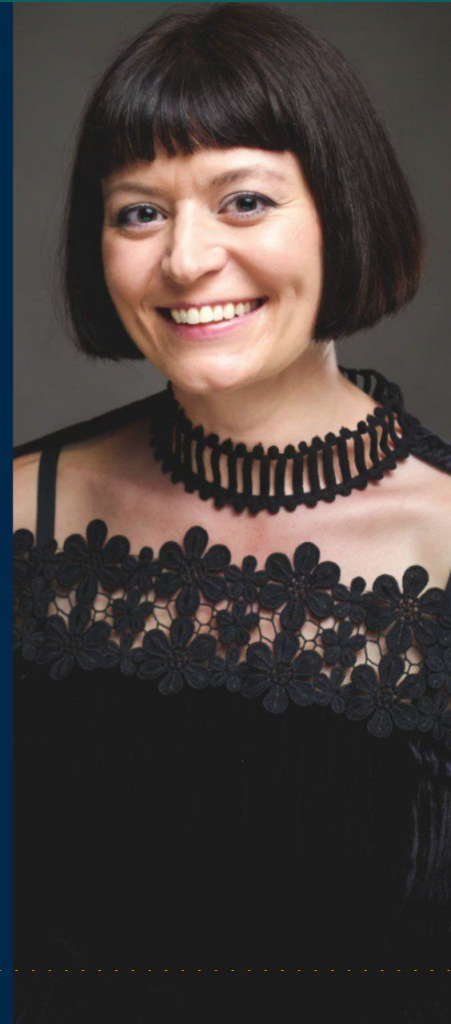


Cech, E. A. (2013). The (mis) framing of social justice: Why ideologies of depoliticization and meritocracy hinder engineers' ability to think about social injustices. In *Engineering education for social justice* (pp. 67-84). Springer, Dordrecht.



ERIN CECH

Population Studies Center  
U-M Sociology  
U-M Mechanical Engineering



## DISABUSING IDEOLOGY: OBJECTIVITY

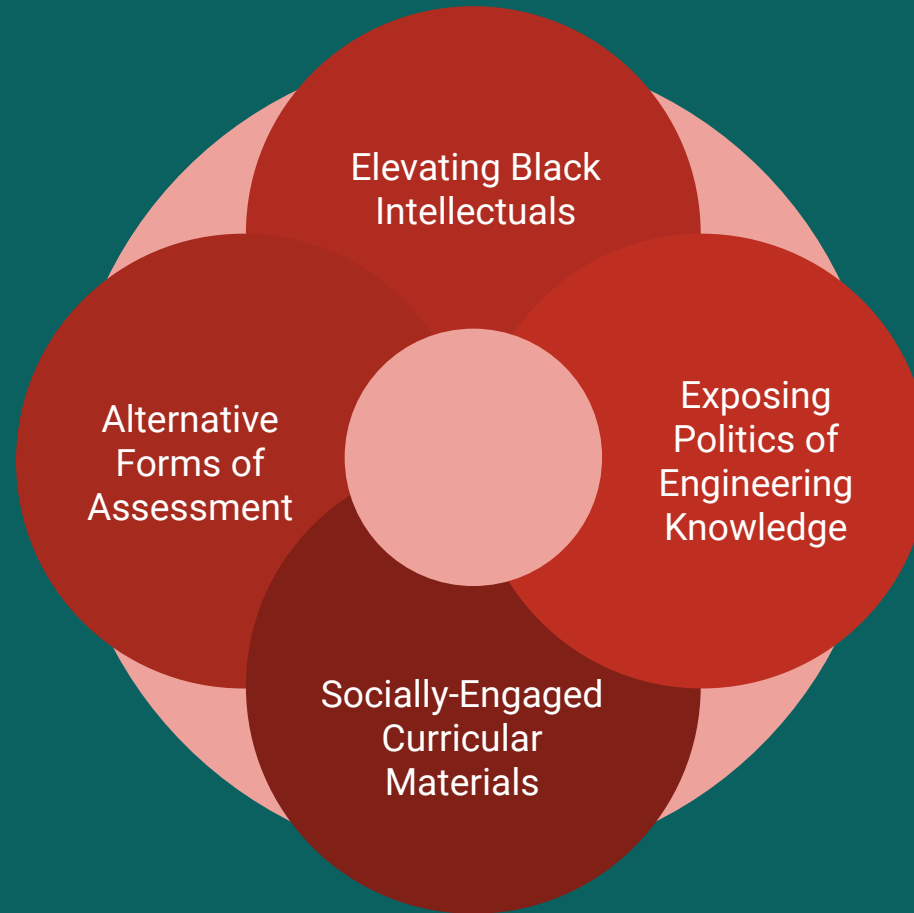
“Think of yourself, Black creator, freed of European restraint which first means the restraint of the self determined mind.

**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?



# Outcomes

