Bio

Prof. Derrick Tate, Ph.D.

Derrick Tate is an Assistant Professor in the Mechanical Engineering Department at Texas Tech University. His work impacts society through bringing design thinking to areas of strategic importance: developing sustainable approaches for buildings and manufacturing; facilitating mass innovation; and assessing innovative potential of design ideas. He received a B.S. in Mechanical Engineering from Rice University. His S.M. and Ph.D. degrees in Mechanical Engineering are from MIT in the areas of manufacturing and design, respectively. Recent projects include development of Megablock building envelopes funded by EarthCo Building Systems, evaluation of engineering properties of Greenstar Blox (papercrete) funded by a Texas Tech University commercial development grant in partnership with Mason Greenstar, an energy storage primer for Power Across Texas, and redesign of portable roll-up signs funded by TxDOT. He has also been instrumental in the development and implementation of novel Master’s and Ph.D. programs in Transdisciplinary Design, Process, and Systems at Texas Tech University.