

Ayanna Samuels

Lab Affiliation: Space Systems Lab, Department of Aeronautics and Astronautics

Research Interests: Satellite Communications for the Developing World

16.888 Spring 2003 Class Project:

My class project is based on a hybrid Satellite Communications System. Our system consists of two parts: a circular LEO satellite backbone constellation designed to provide minimum capacity full-earth communication coverage, and a set of elliptical (Molniya) sub-constellations engineered to meet high-capacity demand at strategic locations around the globe (in particular, the United States, Euro-Asia, and the Pacific Rim). We hope to show that accounting for the uneven distribution of market demand across the planet can result in a lucrative satellite communications network.

Short Biography:

- Dual Master's of Science Candidate (December, 2004)
Department of Aeronautics and Astronautics
The Technology and Policy Program
- Bachelor's of Science in Aeronautics and Astronautics (MIT, 2002)