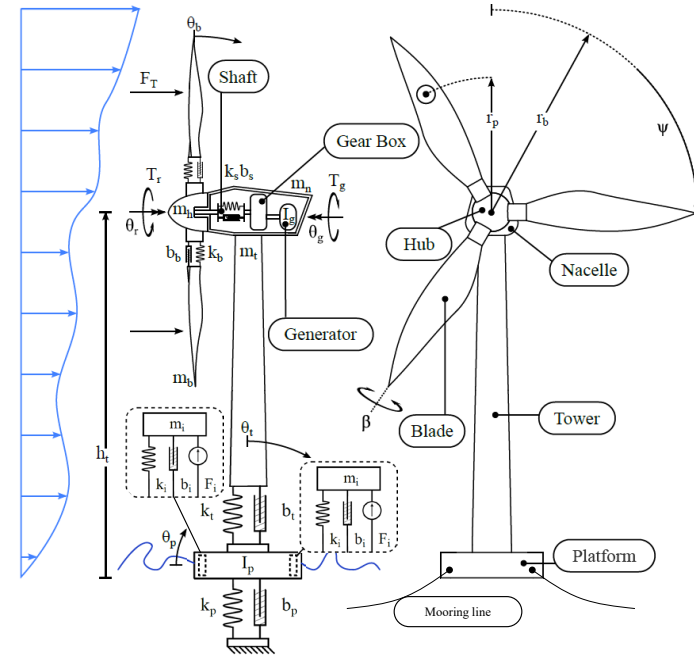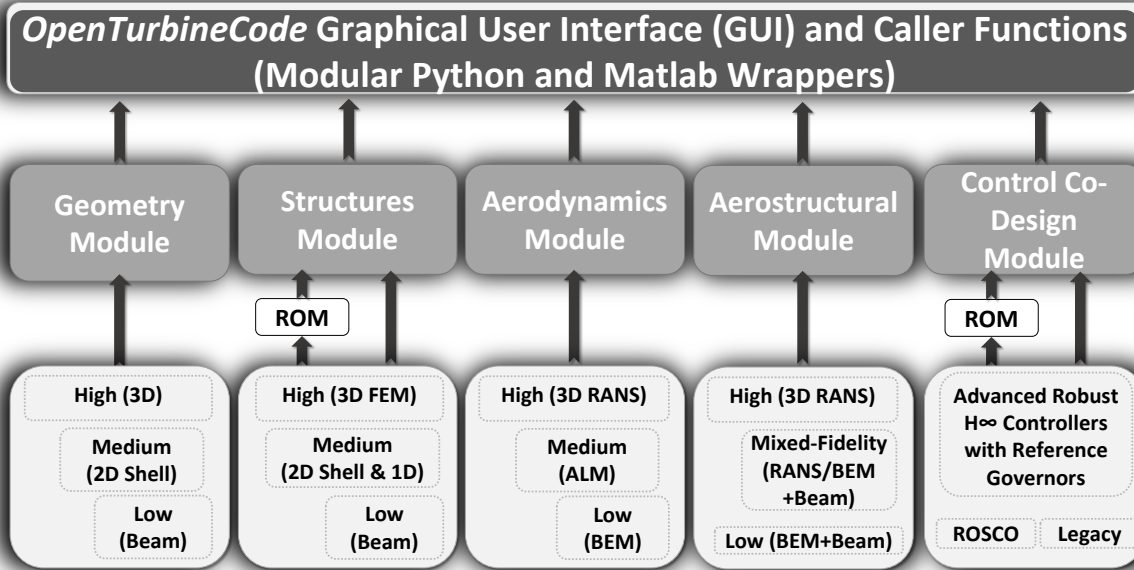*Onur Bilgen, Department of Mechanical and Aerospace Engineering*

Control Co-Design Optimization of Floating Offshore Wind Turbines: OpenTurbineCoDe (A DOE ARPA-E ATLANTIS project by Bilgen, Martins, Ning, Burlion, et al.)
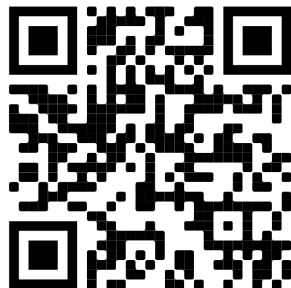
OpenTurbineCode Graphical User Interface (GUI) and Caller Functions (Modular Python and Matlab Wrappers)

Geometry Module	Structures Module	Aerodynamics Module	Aerostructural Module	Control Co-Design Module
	ROM			ROM
High (3D)	High (3D FEM)	High (3D RANS)	High (3D RANS)	Advanced Robust H∞ Controllers with Reference Governors
Medium (2D Shell)	Medium (2D Shell & 1D)	Medium (ALM)	Mixed-Fidelity (RANS/BEM +Beam)	
Low (Beam)	Low (Beam)	Low (BEM)	Low (BEM+Beam)	ROSCO Legacy

PRESENTATIONS
on YouTube:
www.obilgen.com
(or use QR Code)

CODE REPOS
on GitHub:
https://github.com/OpenTurbineCoDe
(to be Public in Spring 2023)