



DM 2 | WINTERSEMESTER 2024

PLANT TOWER

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This project represents the final assignment of a Grasshopper course and draws inspiration from Bosco Verticale in Milan—a visionary architectural landmark known for its integration of greenery within a high-rise structure. The design process begins with the creation of a fundamental oval guiding curve, which is then offset and subdivided into multiple points. These points are systematically grouped to generate a network of wavy lines that wrap around the oval form.

Building upon this framework, connections are established between each group's midpoint, forming a continuous, curvilinear pattern that extends upward. This dynamic geometry is then lofted to create fluid surfaces, enhancing the organic aesthetic of the structure. Finally, the base geometry is extruded to form the tower, completing the design with a strong architectural presence. The result is a vertical structure that seamlessly integrates nature with parametric design principles.