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SolCAD: Three-dimensional spatial design tool to generate solar envelope

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Abstract: The objective of this thesis is to develop a 3D spatial design tool to construct a solar envelope over a given site based on various design parameters. This program intends to generate an envelope over a site of any shape, size and orientation, for different boundary conditions of shadow lines. The program has a user friendly Graphical User Interface (GUI) that allows easy input and shows the results as three-dimensional graphical output. Due to its ease of use and ability to calculate a wide range of solutions it is hope that this tool will help further the use of the solar envelope as a design and zoning tool.

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