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Name of project: Development of a computational library of fenestrated stent graft models

Please provide a description of your project: Fenestrated stent grafts are custom-made medical devices used to treat abdominal aortic aneurysms. Our lab is currently working on computational methods to design and simulate the deployment of these devices. The goal of this project is to develop a semi-automated method for generating 3-D CAD models of these devices that can be used in our computational models. This method will start from an existing CAD model of a representative device and allow for the customization of the device diameter and length as well as the placement of the fenestrations.