**Executive Summary**

Winter is an especially harsh time for people residing in Michigan. As a result, most of us wear layers of clothing each with a different function which restricts mobility and reduces aesthetic appeal. Ease of access and exposure to inside and outside temperatures is also a problem as a person would have to take off their coats and continuously re-adapt to various temperatures. To make winter clothing more efficient our team created a light, comfortable and smart heated jacket: HotJac. This jacket is electrically heated and can be controlled manually as well as through an android application.