As we are living in the modern world, smart devices have become an integral part of our life. As these smart devices become more capable, they are able to accomplish much more than before. Many of the smart devices are battery-powered. This the biggest handicap of portable smart devices right now. As systems on chips (Soc) are improving their efficiency, things are getting better. However modern software also demands more processing power which drains the battery faster. The lightweight oses can extend battery life much further, but their software compatibility is far from ideal. Now that battery technology reached a plateau and transistors in the semiconductors are also reaching their size limit, we are in desperate need of an alternate way of achieving better battery life without compromising performance and compatibility.

This project is an effort to optimize performance, compatibility, and battery life with existing battery technology.