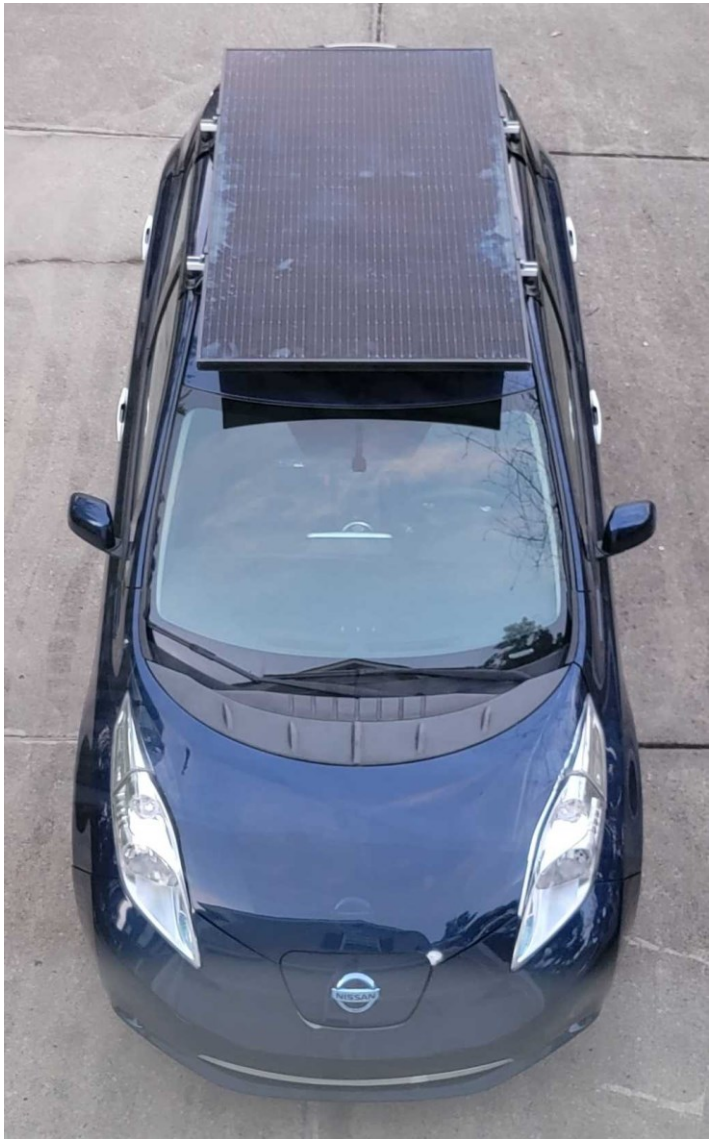
Simplified PV-Based EV Charging

- **Problem:** Lack of charging infrastructure is discouraging EV adoption and delaying our efforts on reducing climate change.
- **Solution:** A low cost and efficient solution for direct dc charging of EVs that will transform the private and public charging landscape.
- **Plan:** Develop a compact and efficient dc-dc step-up converter to interface a minimum of one solar panel to the EV BMS; one of the use cases being a panel mounted on EV's roof rack for charging via its dc port.
- **Team:** Buck Boost – RTP, NC based team of multi-disciplinary engineers passionate about green technology. Combined experience of 100+ years in power electronics, PV & EV fields.



- **Support Network:** University of Colorado, Carolina Elec. Solutions, Nissan, Positive Deviancy