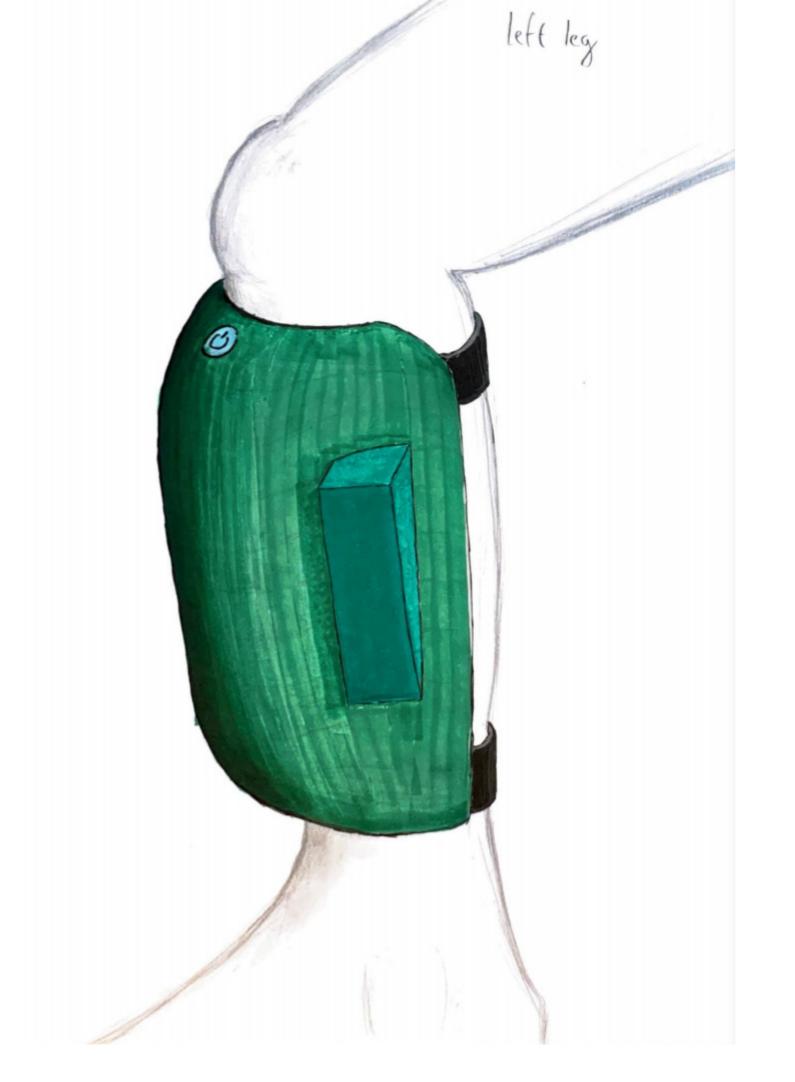
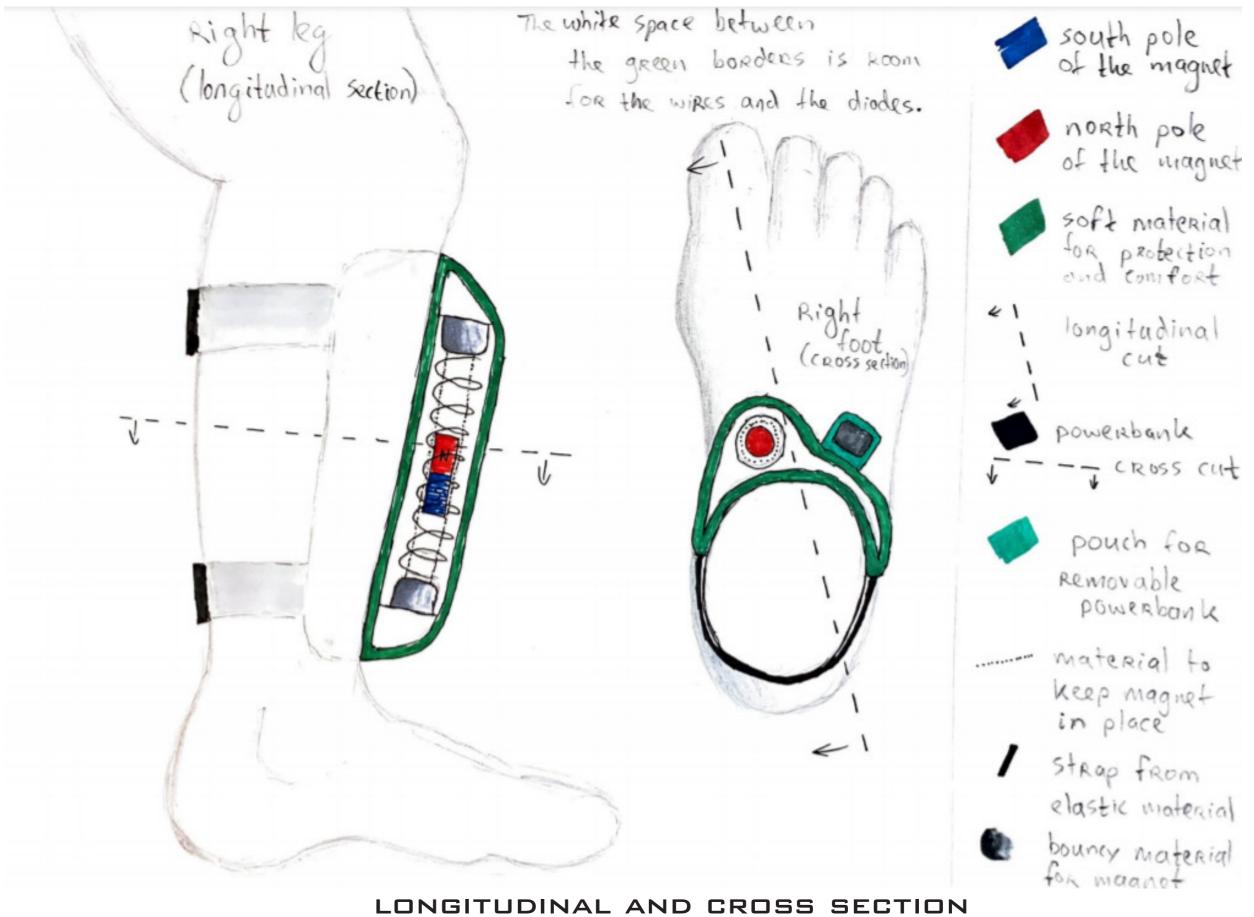
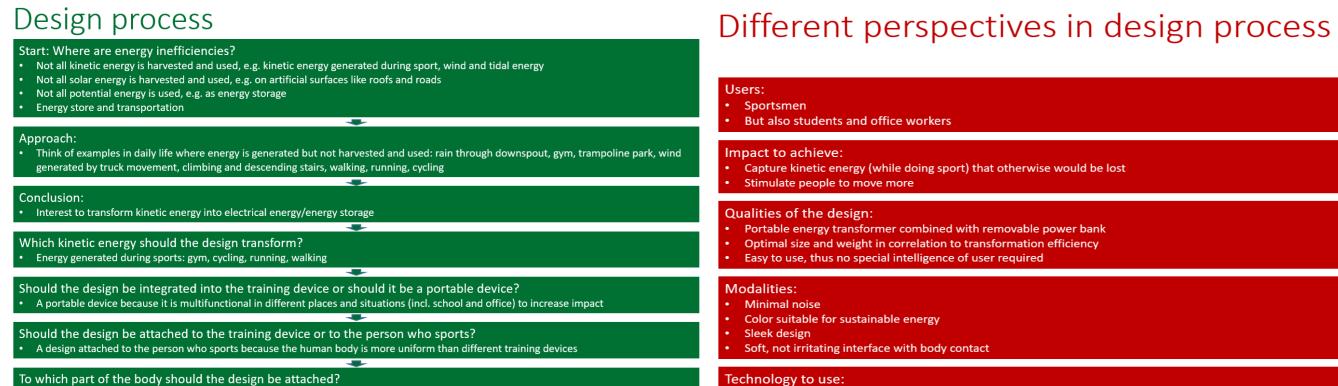
KINELEGTRIC

ENERGY EFFICIENCY ASSIGNMENT, TOM UIJLENHOET





FINAL SKETCH



• Portable device attached to the lower leg because that part can also move while being seated (at school, in the office)



Magnetic inductive coil mechanism to transform kinetic energy into electrical energy

Different perspectives of design

Production of the design: Buy magnetic inductive coil and power bank modules and assemble to kind of shin guards Company taking design to market: Apple or other digital watch manufacturers Competitors of portable kinetic energy transformers: On the market: kinetic shoe sole by Nike, Vibram, etc. In development: knee brace by American military, bracelets Efficiency of the design: Magnetic strength and amount of inductive coils in series determine efficiency Impact of the design: Energy efficiency: kinetic energy that otherwise would be lost is captured

