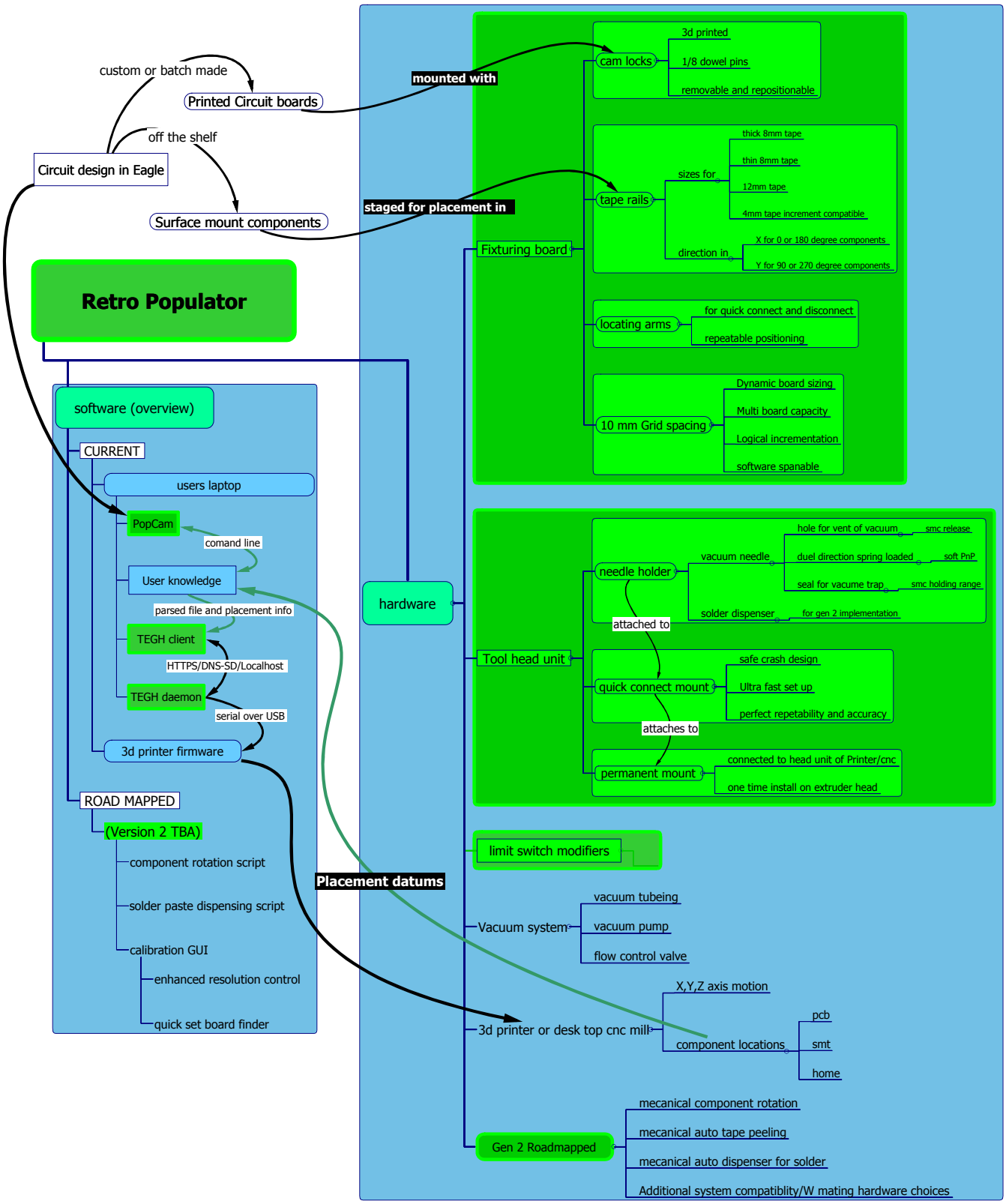
Retro Populator
Circuit design in Eagle
custom or batch made
Printed Circuit boards
off the shelf
Surface mount components
mounted with
staged for placement in
Placement datums
software (overview)
CURRENT
users laptop
PopCam
comand line
User knowledge
parsed file and placement info
TEGH client
HTTPS/DNS-SD/Localhost
TEGH daemon
serial over USB
3d printer firmware
ROAD MAPPED
(Version 2 TBA)
component rotation script
solder paste dispensing script
calibration GUI
enhanced resolution control
quick set board finder
hardware
Fixturing board
cam locks
3d printed
1/8 dowel pins
removable and repositionable
tape rails
sizes for
thick 8mm tape
thin 8mm tape
12mm tape
4mm tape increment compatible
direction in
X for 0 or 180 degree components
Y for 90 or 270 degree components
locating arms
for quick connect and disconnect
repeatable positioning
10 mm Grid spacing
Dynamic board sizing
Multi board capacity
Logical incrementation
software spanable
Tool head unit
needle holder
vacuum needle
hole for vent of vacuum
smc release
duel direction spring loaded
soft PnP
seal for vacume trap
smc holding range
solder dispenser
for gen 2 implementation
attached to
quick connect mount
safe crash design
Ultra fast set up
perfect repetability and accuracy
attaches to
permanent mount
connected to head unit of Printer/cnc
one time install on extruder head
limit switch modifiers
Vacuum system
vacuum tubeing
vacuum pump
flow control valve
3d printer or desk top cnc mill
X,Y,Z axis motion
component locations
pcb
smt
home
Gen 2 Roadmapped
mecanical component rotation
mecanical auto tape peeling
mecanical auto dispenser for solder
Additional system compatiblity/W mating hardware choices