Lesson 3 Rocketry vocabulary/concepts Sept. 26, 2017

* Forged eye bolt and nylon-insert lock nuts
* Epoxy fillets (and how to shape them and how to dry them without sagging)
* Masking (with painters tape) for application of epoxy and later for painting
* DP420 NS (“no-sag”) versus J-B Weld (for high temperature applications)
* Aside: West System epoxy (not provided) is just as strong and cheaper but…
  + Dispensed with plungers (so cannot mix less than about half a mixing cup)
  + Initially runny (so add powder to stiffen to peanut butter consistency before use)
  + Gets hot just before setting up
  + Tends not to be smooth once dry (so use for internal joints and/or sand down)
* Backing (wood) blocks
  + Placement is important
  + Sand into a shape that won’t snag parachutes
  + Epoxy in place (non-removable)
  + Drill pilot holes (to avoid splitting the wood)
  + Screw on rail buttons and camera mount (removable)
* Recovery harness
  + “Approved knots”
  + Loops (thoughtfully placed to avoid hanging collisions on descent)
  + Quick links (removable parachute, etc.)
* FRR – Flight Readiness Review

Document repository: [*http://www.aem.umn.edu/people/faculty/flaten/Rocketry\_Remote\_Lessons\_Fall\_2017/*](http://www.aem.umn.edu/people/faculty/flaten/Rocketry_Remote_Lessons_Fall_2017/)

Danny’s evolving photo-build instructions – check back regularly: [*https://docs.google.com/presentation/d/14IxzFs65U64-Dv\_CV8lyb0TSgxyj1ti4kJh6mG2wQh8/edit?usp=sharing*](https://docs.google.com/presentation/d/14IxzFs65U64-Dv_CV8lyb0TSgxyj1ti4kJh6mG2wQh8/edit?usp=sharing)