

Saal: 18:30 00:30 Day: 3 Track: Hardware & Making nA
Simulacron-3

Title: **A practical prototyping primer**

Subtitle: A rather unstructured selection of things I wished I knew 10 years ago.

Speaker: **Lieven Standaert**

Short: *This will be a rapid-fire, tips-and-tricks lecture on practical prototyping. It will cover a series of practical tips, strategies & techniques, illustrated with all the mistakes I made over the past 10 years designing & building stuff. The lecture is intended for a non-specialized audience with a basic understanding of what a lasercutter, a 3D-printer and a milling machine does.*

Long: Lieven Standaert coordinates Fablab Brussels for the department of Engineering Technology, Vrije Universiteit Brussel. He teaches a hands-on robotics class to 2nd year engineering students. The talk will cover: -different kinds of plastics. Some you can glue, some you can't. Some you can laser cut, some you can't. Don't say plastic, say PVC. -glues, dos and don'ts. Sometimes glue is great, often it sucks. -safety equipment; good gloves and stuff. It costs money. It's worth it. -What do you want in your toolbox if you are just starting out? When do you buy the cheap Chinese stuff and where do you invest in more high-quality tools? -my favorite tools -metals, dos and don'ts. Welding vs bolting. -types of bolts and nuts -prototyping and manufacturing techniques and strategies: 2d-metalwork, vacuum forming, design for assembly, -design for 3D-printing I intend to develop this lecture into an introduction for my new students next October, who are just beginning to use the fablab machinery & tools. I intend to develop this lecture into an introduction for my new students next October, who are just beginning to use the fablab machinery & tools. So if you are an experienced builder some of this stuff might be too basic for you. On the other hand I intend to give the kind of talk I enjoy watching myself.