

SHELTER FOR AN AQUAPONICS SYSTEM

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Marketing



Project Managment



Sustainability and ethics



Architecture

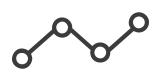
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Electronics



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INTRODUCTION

Build a shelter for an aquaponic system

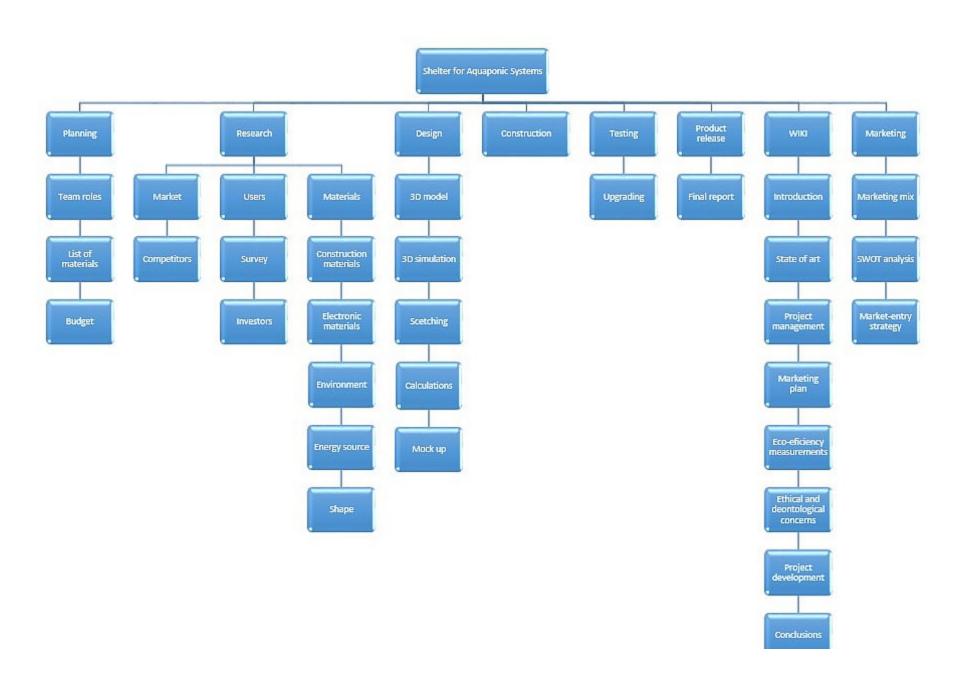
Greenhouse that looks good in a urban environment

Protect/support the aquaponic system

MARKETING



PROJECT MANAGMENT



PROJECT MANAGMENT



Arduino Uno 22,90€

DHT22 sensor 9,90€

LCD keypad shield 14,50€

Power supply 7,50€

Wires **4,20€**

PMMA o,oo€

Double side tape 23,16€

Allplast glue 8,74€

Expanded PVC o,oo€

TOTAL 90,90€

Budget 150€

Rest 59,1€

*Cost of people were neglected because we are rewarded with grades, not money.



During all duration of the project we did not exceed non of deadlines



Expanded PVC instead of wood

PMMA instead of PC

Bigger size

SUSTAINABILITY

Economic

Affordable materials Money saving **Social**

Independency Availability **Enviromental**

Eco-friendly materials
Air&water pollution
Energy efficience
Not using chemicals

ETHICS

Safety and health

Sales and Marketing

Enviromental

ARCHITECTURE

Pinewood PC



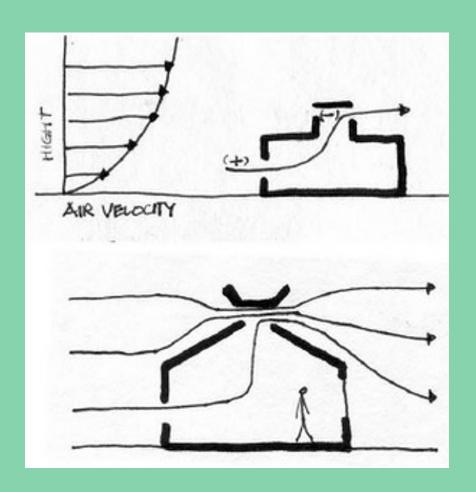
ELECTRONICS

Temperature and humidity

Arduino Uno LCD keypad shield DHT22 sensor



Ventilation



TEST AND RESULTS



FUTURE DEVELOPMENT

Make it more user-friendly

Customize the size

Ability to disassemble

Customize the structure material

Thermal mass heating system

Sun protection system

Fully-automated windows opening system

CONCLUSIONS



Eco-lifestyle contribution



Cooperation skills



Knowledge of organic food products



Low-cost product



Engineering experience

VIDEO



