

# Accu-Pop

DESIGN DOCUMENT

**Team Numer:**

Dec1701

**Client:**

Accu-Pop L.L.C.

**Faculty Advisor:**

Dr. Ahmed Kamal

**Team Members/Roles:**

Andrew Zellar - Team Leader

Jordan Young - Communications

Stefan Kraus - Webmaster

Josh Wassenaar - Key Ideas Holder

**Contact:**

[dec1701@iastate.edu](mailto:dec1701@iastate.edu)

**Team Website:**

<http://dec1701.sd.ece.iastate.edu>

04/21/2017 - Version 2

# Contents

<b>1 Introduction</b>	<b>3</b>
1.1 Project statement	3
1.2 Purpose	3
1.3 Goals	3
<b>2 Deliverables</b>	<b>4</b>
<b>3 Design</b>	<b>4</b>
3.1 System specifications	4
3.1.1 Non-functional	4
3.1.2 Functional	4
3.1.2.1 Hardware Functional Requirements	5
3.1.2.2 Software Functional Requirements	5
3.1.3 Standards	5
3.2 Proposed Design/Method	5
3.2.1 Hardware Design	7
3.2.2.1 Components	7
3.2.2.2 Embedded Software	8
3.2.2 Software Design	8
3.2.2.1 User Interface	8
3.2.2.2 Server and Hosting	
3.3 Design Analysis	8
<b>4 Testing/Development</b>	<b>9</b>
4.1 Interface specifications	9
4.2 Hardware/software	9
4.3 Process	9
4.3.1 Hardware	9
4.3.2 Software	9
<b>5 Results</b>	<b>11</b>
<b>6 Conclusions</b>	<b>11</b>

















