**DESIGN E TECNOLOGIA: DESENVOLVIMENTO E CONFECÇÃO DE JOIA EM NIÓBIO E COBRE EMPREGADA À SIMBOLOGIA BARROCA**

**Resumo**

A pesquisa apresenta um projeto de desenvolvimento de joias a partir da utilização de Nióbio juntamente com o cobre, enfatizando o metal Nióbio, mostrando sua utilidade e valorização, sabendo que é obtido em abundância no Brasil, assim enaltecendo a exploração do metal na produção e elaboração de joias. O Nióbio é um metal cuja sua coloração pode ser alterada por meio de tratamentos de anodização, juntamente com sua resistência a corrosão, estes fatores acabam por exaltar o metal no mercado de design de joias.

**Palavras-chave:** Nióbio; Desenvolvimento de Joias; Anodização.

***ABSTRACT***

*The research presents a jewelry development project based on the use of Niobium together with copper, emphasizing the Niobium metal, showing its usefulness and valorization, knowing that it is obtained in abundance in Brazil, thus praising the exploration of the metal in the production and elaboration of jewelry. Niobium is a metal whose color can be changed through anodizing treatments, together with its resistance to corrosion, these factors end up exalting the metal in the jewelry design market.*

**Keywords**: *Niobium, Jewelry Development, Anodizing.*

1. INTRODUÇÃO

As joias, principalmente anéis, brinco e colares, são vistos desde muitos tempos atrás como algo muito importante, se referindo a beleza e status para os seres humanos. O tempo se passou, e isso não mudou, mas os *designs* sim, foram surgindo cada vez mais, e muitos deles bem diferentes, vários se referindo a arquitetura moderna e os gostos novos das pessoas. A produção de joias passou a ser em larga escala, e agora a confecção de joias artesanais começaram a ser mais valorizada, e os *designs* antigos e históricos voltaram a ter procura no mercado.

A simbologia Barroca é uma dessas, como tem uma arquitetura bem complexa, acaba sendo mais complicado produzir uma joia com esses modelos, mas as que são produzidas acabam tendo uma grande procura.

Os adornos são diferenciados e validados por seu material que vai do bronze ao diamante, o Nióbio por sua vez é muito abundante no território brasileiro, porém não muito valorizado, os dois juntos formam uma junção de cores muito bonita, dessa maneira a junção dos dois metais acaba por valorizá-los ainda mais.

**2 OBJETIVO**

Desenvolver um projeto para a confecção de uma joia, especificamente um pingente de colar cuja matéria prima seja o Nióbio juntamente com o cobre, aplicados na arquitetura Barroca.

**1.1 JUSTIFICATIVA**

A procura por colar é muito alta como se vê no gráfico, existem pontos que ele chega a ter 100% de procura em todos os estados, seguido da pulseira, mas com uma margem relativamente grande, tendo até 45% a mais de procura, no período de 25 a 31 de outubro de 2019. A crescente busca por colar e a aceitação da arquitetura barroca no meio artístico e metalúrgico, proporcionam novas ideias.

Já o Nióbio nos permite uma gama de cores ainda maior que os outros materiais, juntamente com o cobre fica ainda mais proporcional essa escolha de cores, além de ter uma harmonia entre os dois materiais.

**Gráfico:** Gráfico de interesse, ao longo do tempo, dos tipos de joias com arquitetura barroca

![Interface gráfica do usuário, Gráfico, Aplicativo

Descrição gerada automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEhlbnJpcXVlIFNhbnRvcwAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNTIAAJKSAAIAAAADNTIAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Fonte:** O autor

**1.2 REFERENCIAL TEÓRICO**

1.2.1 A joia

A história da joia nos mostra os caminhos da humanidade. O homem sempre sentiu a necessidade de se adornar. Os primeiros adornos eram feitos com ossos e dentes de animais, conchas, pedras e madeira e simbolizavam o status, o poder ou misticismos.

A joia conecta o corpo com público e o privado por ser um símbolo cultural, permitindo o engajamento de joalheiros nos tempos atuais. Para Sandino (2002), em termos de análises ao corpo a joia não é apenas um adorno, ela torna-se um exercício crítico das artes aplicadas em sua execução.

Desde quando o humano passou a ter experiências simbólicas, a incorporação das joias é valorizada. Isso se destacou ainda mais, quando os humanos se aprimoraram nas técnicas de manuseio do metal. Sabendo tudo isso previamente, é mais fácil compreender quais significados as joias foram adquirindo ao longo da história.

Segundo Mercaldi (2016), conceito de joia, até metade do século XIX, estava atrelado à preciosidade atribuído ao material na qual era produzida, fazendo com que o valor econômico de sobrepujasse ao valor estético e simbólico. Dessa forma, os joalheiros possuem maior liberdade na sua produção, utilizando outras matérias e experimentando outras expressões artísticas.

1.2.2 Estilo Barroco

Nas joias barrocas o que predomina é a emoção que vem contrapor com o racionalismo do renascimento. A joias passam a ser usadas com mais moderação e ficam mais elegantes. Temas religiosos perdem espaço para os temas naturalistas como pássaros e flores. Houve um grande avanço na lapidação. Os desenhos de peças para o dia eram diferentes dos para serem utilizados à noite, já que estas deveriam refletir com mais intensidade a luz dos candelabros. As joias são usadas como ostentação de poder e riqueza O diamante foi a gema preferida, mas rubis, esmeraldas e safiras também foram muito utilizados. O estilo Barroco é muito elegante, com traços suaves, e enfeites lindo, diferente dos outros estilos, que eram rústicos e com má construção, trazendo assim o olhar dos consumidores para si.

1.2.3 O Nióbio

Nióbio (Nb) possui o número atômico 41, seu peso atômico é de 92,90638 e é classificado com um metal de transição. Esse metal é dúctil, sua densidade é de 8,57 g/cm3, possui alta resistência à corrosão e sua coloração é um cinza brilhante.

Descoberto por Charles Hatchett, em 1801, recebeu o nome de Colúmbio em alusão a localidade onde a amostra foi encontrada, Connecticut, nos Estados Unidos. O Nióbio apresenta semelhanças em suas propriedades físico-químicas com o elemento tântalo, nome dado em homenagem à deusa Niobe, filha de Tântalo na mitologia grega (NUNES, 2013, p.30).

O Brasil detém a maior reserva mundial de Nióbio, a sua concentração na crosta terrestre é extremamente baixa, e muitos brasileiros desconhecem essa riqueza natural.

O Nióbio é encontrado na natureza em forma de minerais, possuindo mais de 90 espécies conhecidas, entretanto as principais fontes no Brasil e no mundo são; a Columbiita-tantalita e o Pirocloro (PEREIRA JR, 2009 aput LUCENA, 2010, p.13).

Segundo o Departamento de Física – Universidade de Coimbra (2011) apud NUNES (2013, p. 31) “são utilizados superligas para fabricação de equipamentos que necessitam altas resistências a combustão, sendo um minério essencial para as indústrias aeronáutica e aeroespacial; sua tecnologia faz com que possa substituir metais, como molibdênio, vanádio, níquel, cromo e titânio em setores industriais.

1.2.4 No Brasil

O Brasil é o país que possui a maior reserva de Nióbio do mundo, seguido do Canadá e Austrália. As reservas medidas de nióbio (Nb2O5) aprovadas pelo DNPM e contabilizadas totalizaram 842.460.000 toneladas, com teor médio de 0,73% de Nb2O5” (PEREIRA JR apud LUCENA, 2012, p.132).

Existem depósitos de Nióbio no Brasil nos estados do Amazonas, Goiás, Minas Gerais e Rondônia; sendo que os mais significativos estão localizados no estado de Minas Gerais, no Complexo do Barreiro e em Goiás, nos complexos de Catalão I e II (LUCENA, 2010, p.05).

Figura 1: Produção de Nióbio



Fonte: Tomás Arthuzzi/Thales Molina/Superinteressante

O nióbio **(Figura 1)** já tem sido explorado no território nacional desde 2000, e tem seu consumo sido mais expressivo nas indústrias eletrônicas e automotivas.

1.2.5 O Cobre

O Cobre (Cu) é um elemento metálico, seu número atômico 29, faz parte da mesma família (11) que o ouro e a prata, sendo um mineral não ferroso têm sido utilizados por diversas culturas espalhadas pelo mundo. É dúctil e condutor, tanto térmico quando elétrico, apresenta uma cor marrom avermelhado brilhante.

Sua utilização abrange diversas áreas, como: canalizadores, cabos elétricos, objetos de decoração, utensílios diversos como bijuteria e peças de joalherias.

No Brasil, as reservas desse metal, são formadas em sua maioria por minerais sulfetados, como ouro e a prata associados. Os depósitos da Província Mineral de Carajás são considerados de grande porte e de classe mundial; no estado do Pará retém 85% das reservas e os maiores e importantes depósitos econômicos de cobre do país (ROCIO et al, 2012, p. 402).

Segundo DNPM (2011) aput ROCIO et al (2012, p. 405), o Brasil dispõe de 2% das reservas mundiais de cobre. Apesar do cobre ser produzido em torno de cinquenta países, os sete maiores produtores possuem 70% da produção mundial, sendo o Chile responsável por quase um terço (ROCIO et al, 2012, p.406).

O cobre é utilizado na joalheria desde tempos distantes, por sua coloração e facilidade em manipulá-lo com ferramentas manuais e elétricas. Adquirir uma peça com esse metal, como objeto de bem de consumo, é acessível pelo seu valor econômico, entretanto em contato com a humidade pode ocorrer uma reação química apresentando manchas esverdeadas na joia. Esta adversidade pode ser sanada com o uso de capas de esmalte transparente, o que impede o aparecimento destas manchas em contato com a transpiração.

**2 METODOLOGIA**

A metodologia para fabricação artesanal da joia, que ocorreria no Lab. de Design de Joias do Centro Universitário, está embasada na obra: Joias: fundamentos, processos e técnicas, de Rita Santos, 2017. Os estudos e dados apontaram que a joia mais procurada no ano de 2020 é, neste caso, os colares. Como o colar em si é composto por uma corrente e um pingente, devido a pandemia do Covid-19, não foi permitido acesso ao laboratório, por isso, este projeto contém a pesquisa, problematização e design da joia.

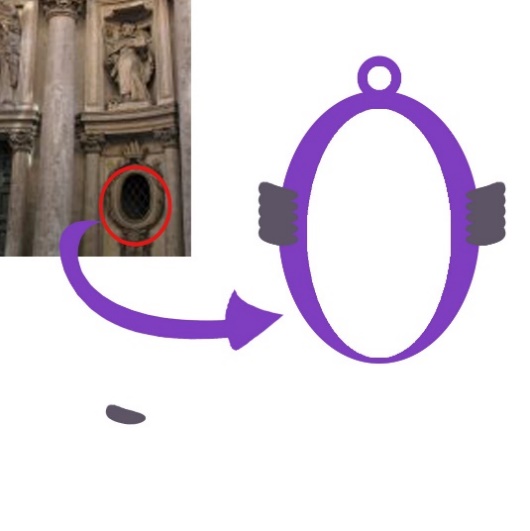
2.1 Materiais

Os materiais utilizados na joalheria contemporânea, são cada vez mais valorizados com o uso de materiais não convencionais. Podendo trabalhar o metal com sementes, vidros, plásticos, bambu, entre outros. Segundo Rita Santos (2017), o processo a ser seguido na produção dessas joias deve levar em conta o material utilizado. Porque muitos desses materiais não suportam temperaturas altas. Neste projeto os materiais utilizados serão o nióbio e o cobre.

2.2 Desenho e Disposição

No decorrer dos esboços da joia **(Figura 2)**, pode ser perceber que as duas peças acabam ficando soltas, uma da outra, mas a corou fica sobre a peça de baixo, dando sustentação para uma, e a outra dando um toque de empoderamento para a outra.

**Figura 2: modelo da base do pingente**

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**Fonte:** O autor

**Fonte:** Adaptada pelo autor

A primeira peça é inspirada no entorno de uma janela, que se chama óculo e é a base para o pingente. Ela é em Nióbio seus detalhes são forjados juntos, como se fossem pequenas “lombadas” uma dentro da outra, no total de 5 em cada lado.

**Figura 3: modelo da coroa acessório do pingente**

**Uma imagem contendo edifício, olhando, grande, velho

Descrição gerada automaticamente**

**Fonte:** O autor

A segunda é inspirada na coroa, que é denominada por rocaille **(Figura 3)**, ela é feita de cobre, e vem solta no pingente, sendo presa pela corda ou corrente do colar, e fica por cima da peça maior. O cobre foi usado com o intuito de dar uma estabilidade entre as cores e sua neutralidade dá uma estabilidade nelas, pois é neutro.

**Figura 4: modelo pronto**

Uma imagem contendo desenho

Descrição gerada automaticamente

**Fonte:** O autor

Na **Figura 4** está o desenho gráfico do colar pronto, com todas suas peças.

**3. PÚBLICO-ALVO**

Público-alvo são mulheres entre 20 e 40 anos, com uma renda média, que tenham a nostalgia e o gosto um pouco mais refinado para esse tipo de arquitetura.

3.1 Persona

Mulher chamada Elaine que trabalha no RH de uma empresa multibilionária, com aproximadamente 38 anos, com uma renda acima de 7 salários mínimos moradora de um condômino fechado em São Paulo, amante de arquitetura antiga, e apaixonada no princípio Barroco.

**4. RESULTADOS ESPERADOS**

A joia a ser desenvolvida busca os conceitos da arte barroca para levar a peça a contemporaneidade. Com o uso de metais nobres, como o nióbio, e do cobre que tem uma boa empregabilidade na confecção de joias. Esta fusão será excelente para o projeto, trazendo a beleza do passado barroco com o uso do cobre na coroa e a modernidade do nióbio com suas cores obtidas pelo processo de anodização.

O Nióbio é um material e metal muito abundante no Brasil, sua abrangência de cores poder gerar inúmeras possibilidades de composições para designs de joias. A tendência por arquiteturas antigas em joias tem crescido, o que torna o mercado rico e atrativo para designers de joias, joalherias e o próprio profissional de ourivesaria.

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